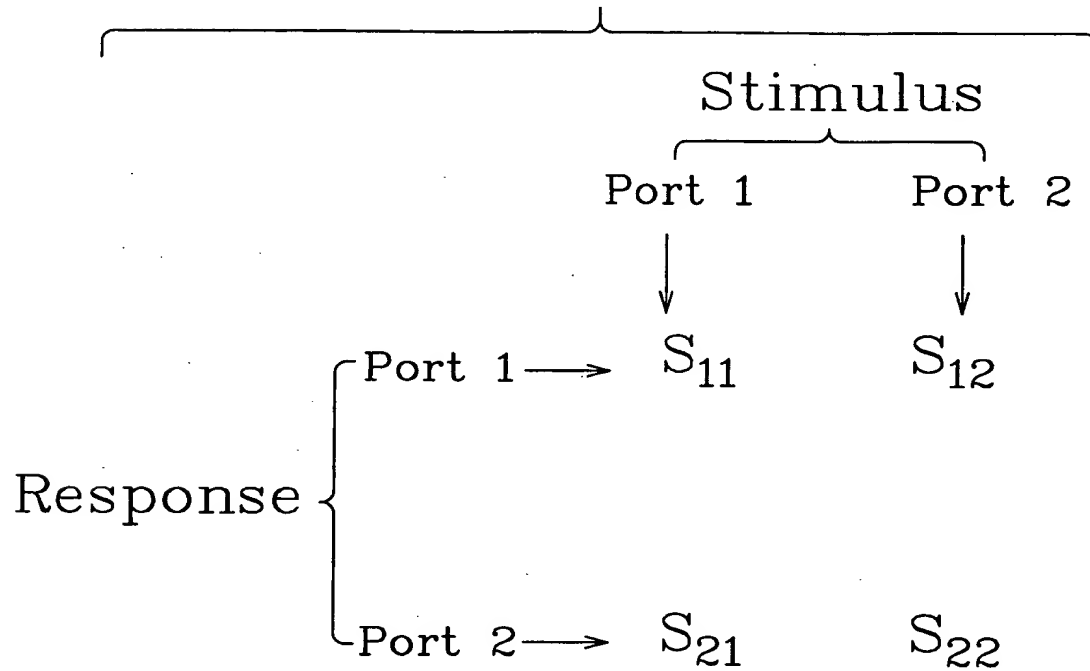




1/43

THE SINGLE-ENDED S-MATRIX



Syz

z=stimulus port
y=stimulus port

FIG 1(a)

(Related Art)



COPY OF PAPERS
ORIGINALLY FILED

2/43

THE MIXED-MODE S-MATRIX

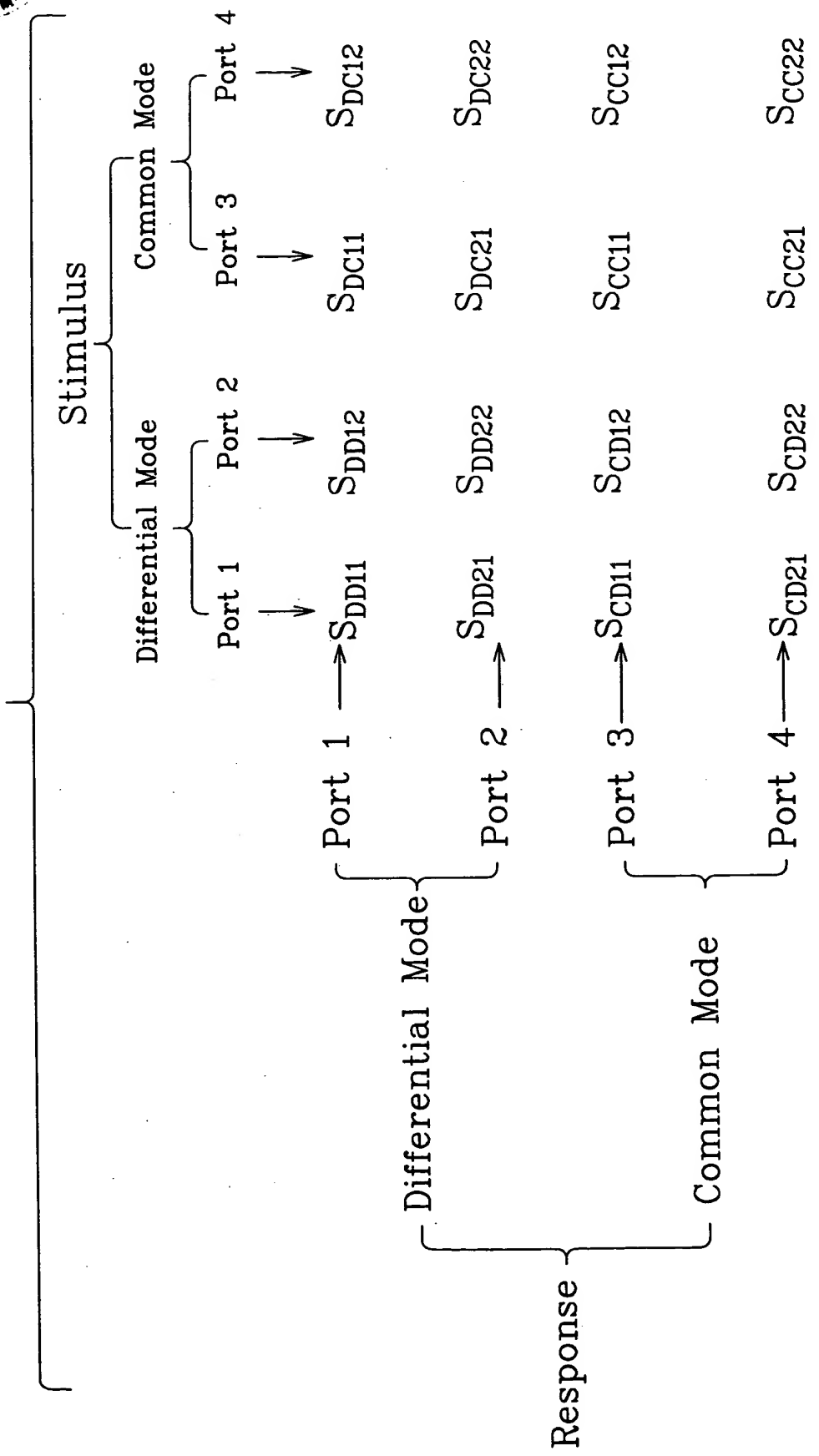


FIG. 1(b)
(Related Art)

Swxyz
w=response mode z=stimulus port
x=stimulus mode y=response port



3/43

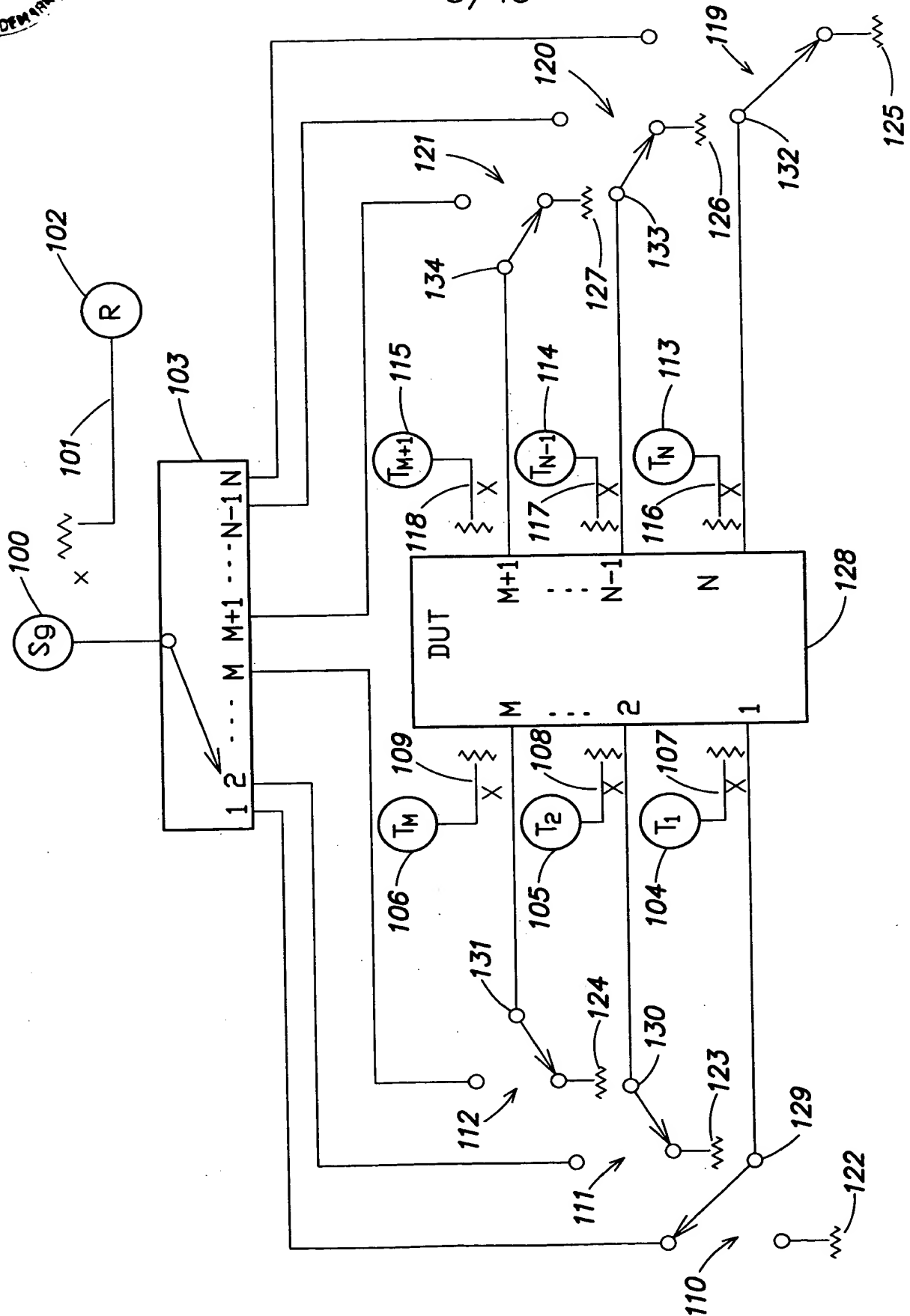


FIG. 2

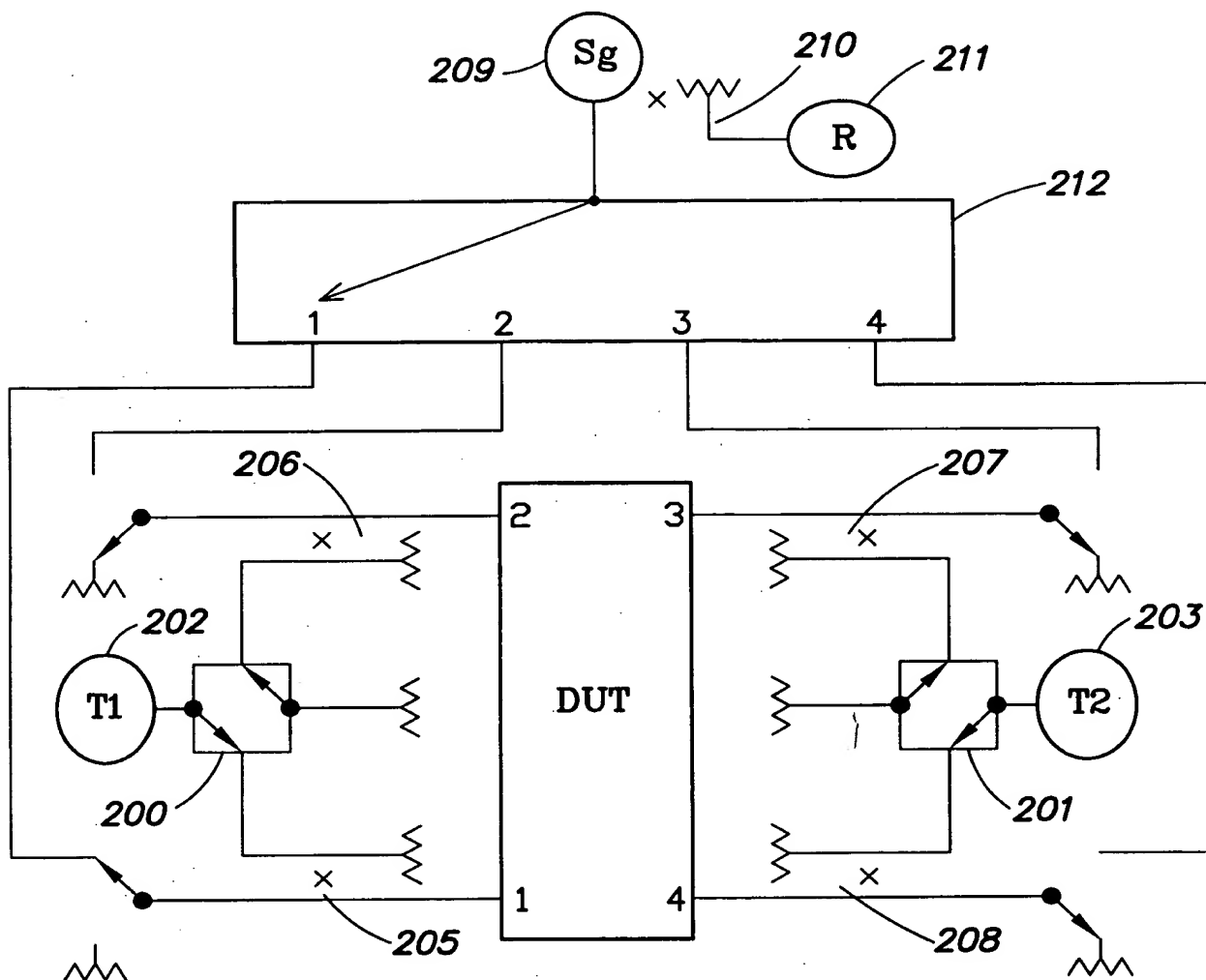


FIG. 3



5/43

COPY OF PAPERS
ORIGINALLY FILED

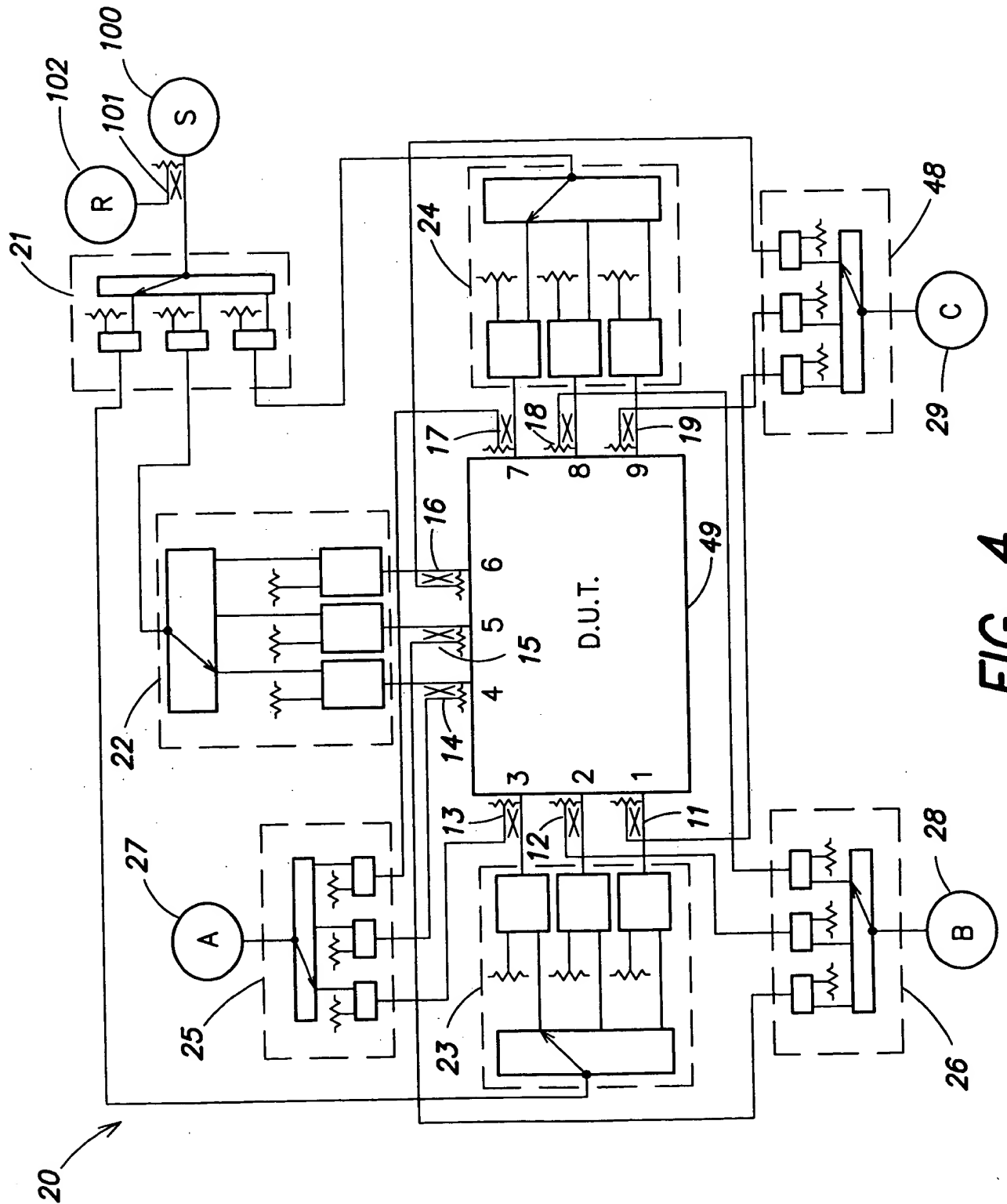
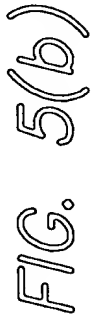


FIG. 4



**COPY OF PAPERS
ORIGINALLY FILED**





8/43

COPY OF PAPERS
ORIGINALLY FILED

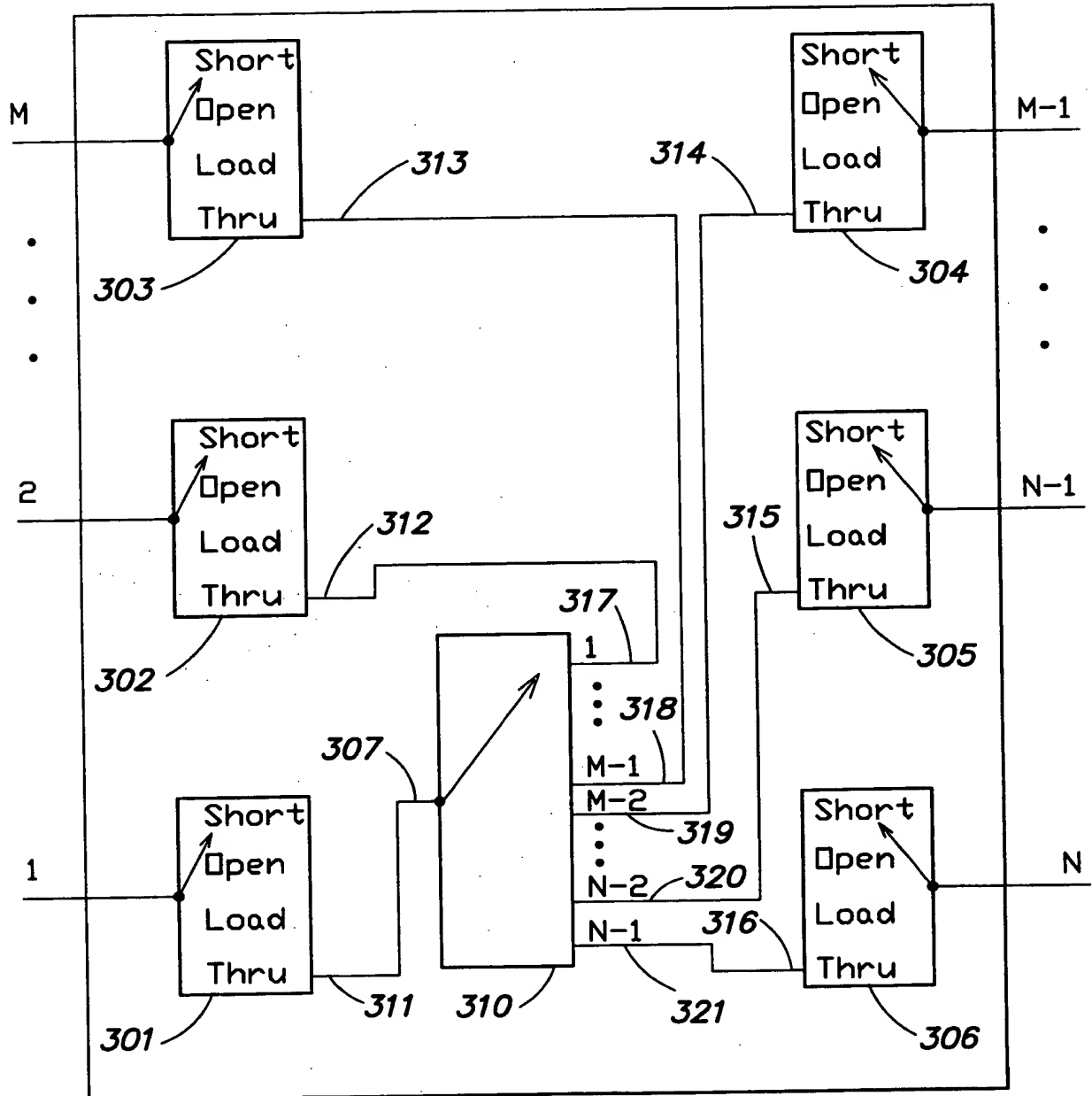


FIG 6
(RELATED ART)



9/43

COPY OF PAPERS
ORIGINALLY FILED

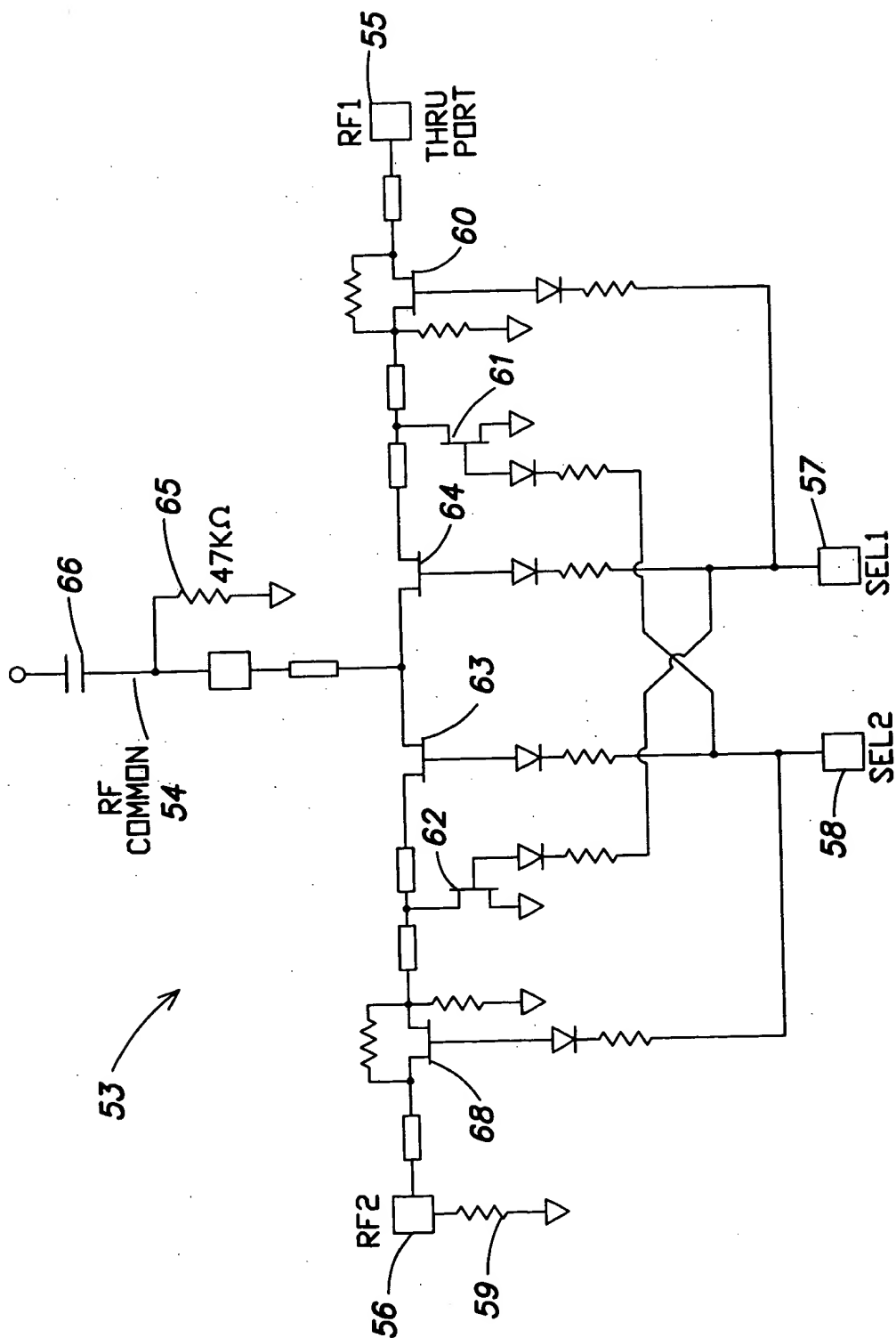


FIG 7

10/43

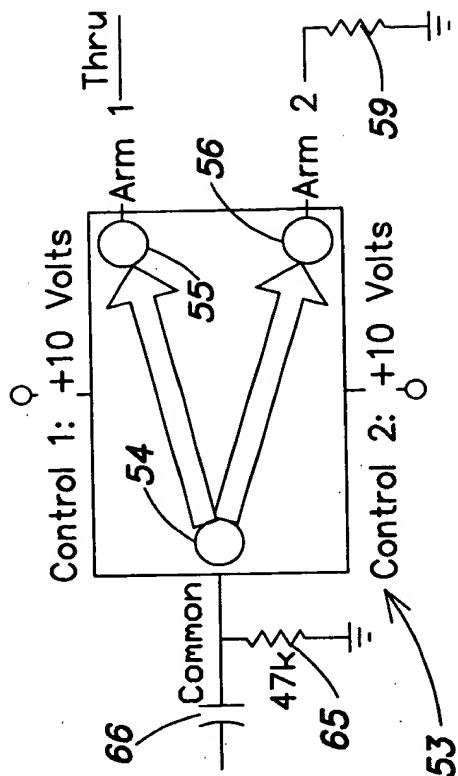


FIG. 8(c)

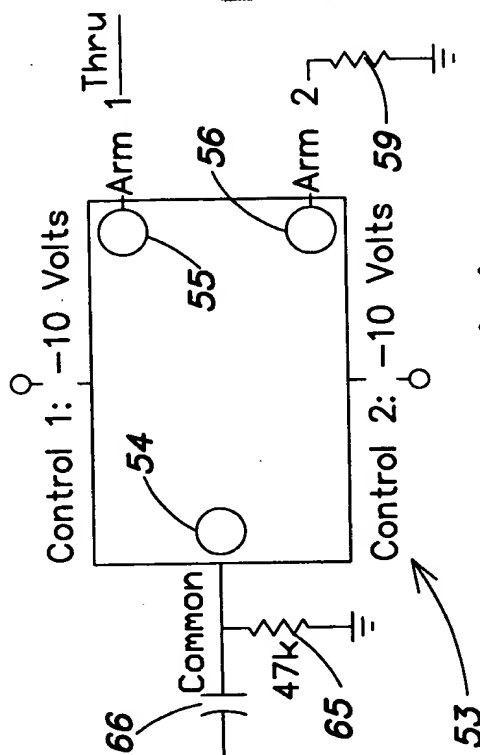


FIG. 8(d)

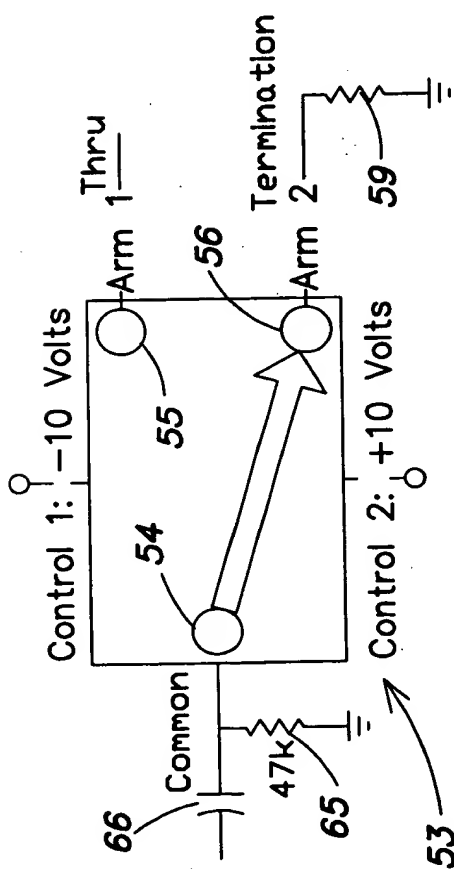


FIG. 8(a)

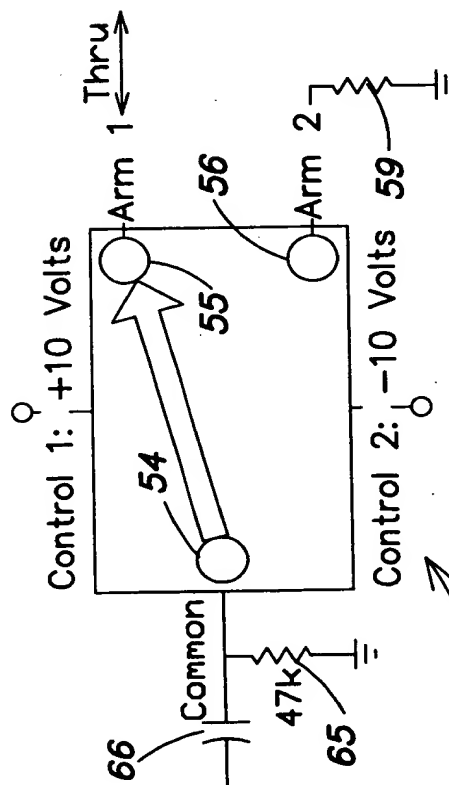


FIG. 8(b)



11/43

COPY OF PAPERS
ORIGINALLY FILED

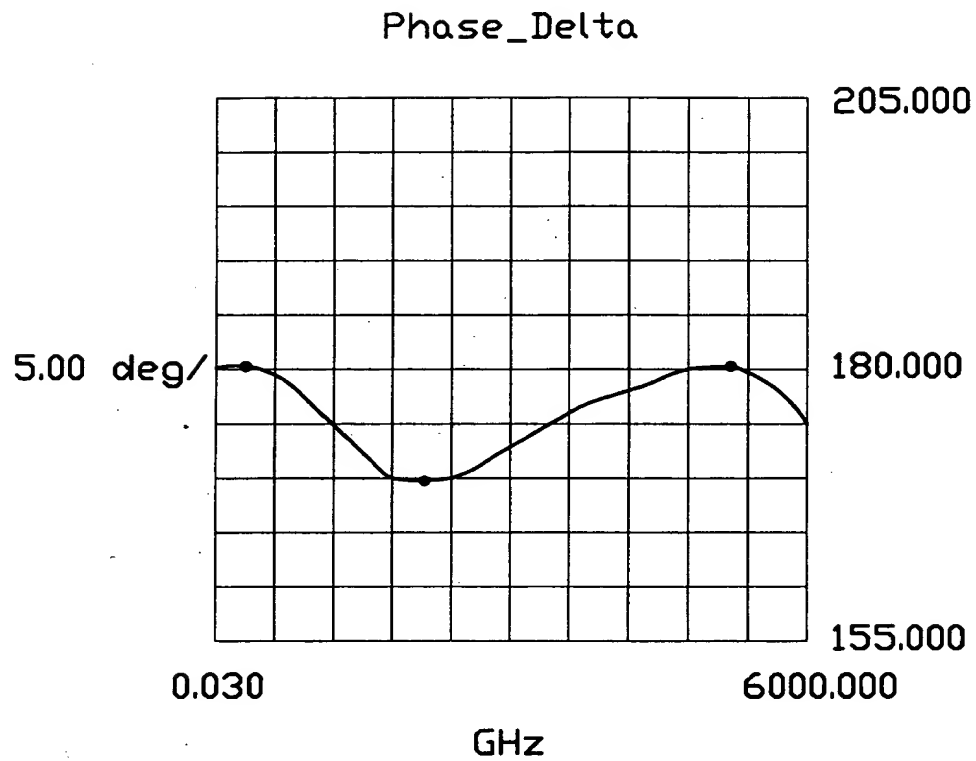


FIG. 9



COPY OF PAPERS
ORIGINALLY FILED

12/43

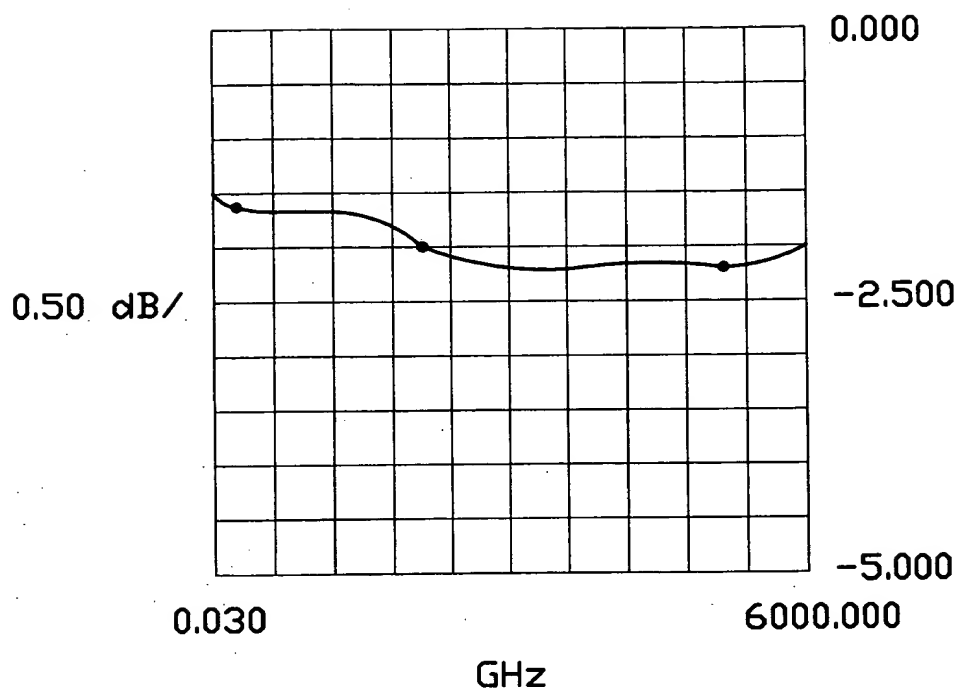


FIG. 10



13/43

COPY OF PAPERS
ORIGINALLY FILED

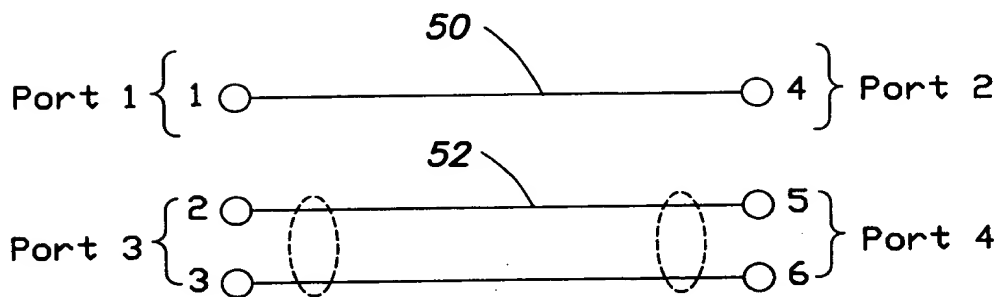


FIG. 11

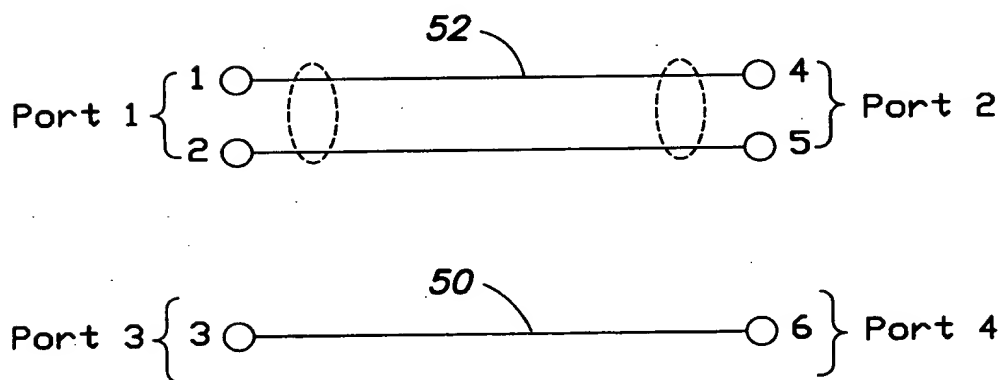


FIG. 12



14/43

COPY OF PAPERS
ORIGINALLY FILED

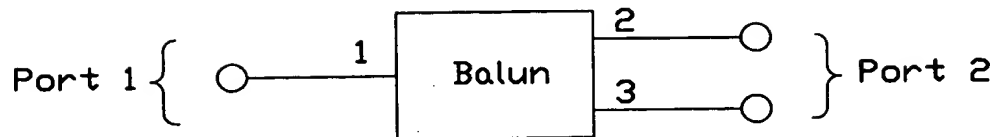


FIG. 13

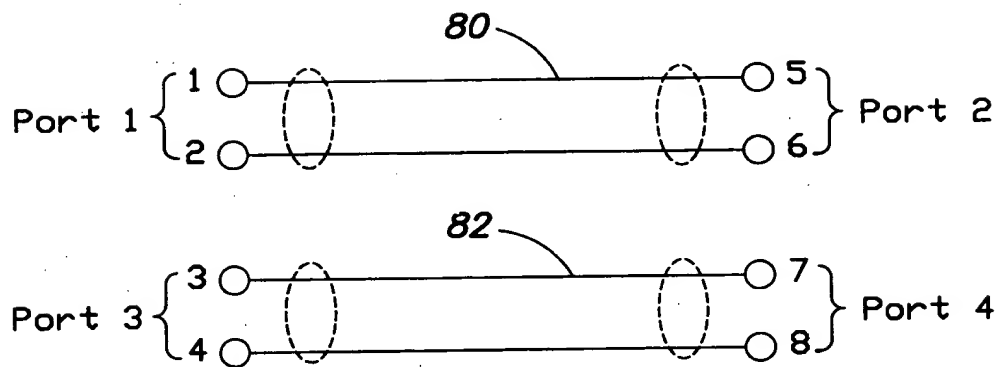


FIG. 14



15/43

COPY OF PAPERS
ORIGINALLY FILED

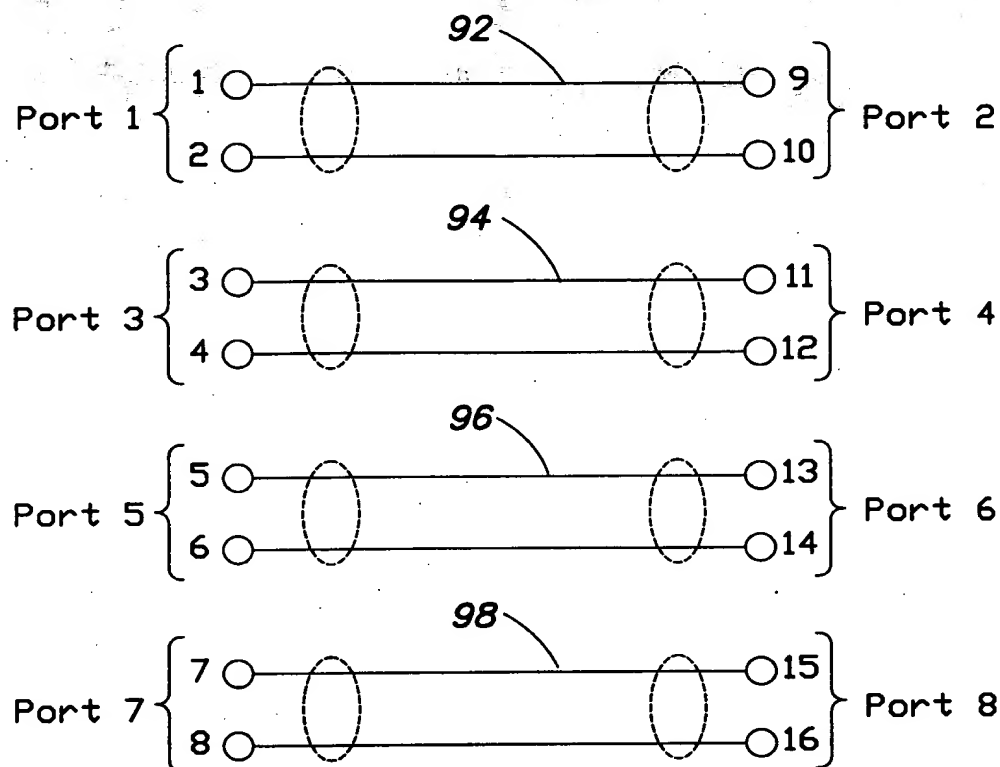


FIG. 15



16/43

COPY OF PAPERS
ORIGINALLY FILED

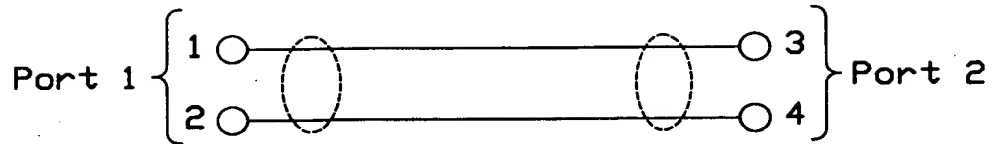


FIG. 16

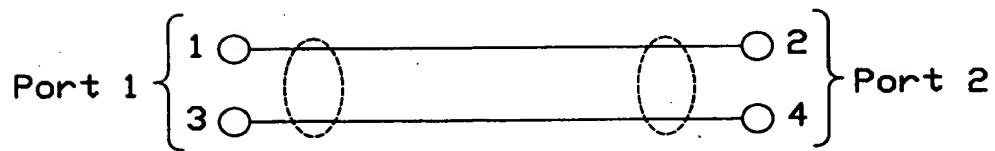


FIG. 17



17/43

COPY OF PAPERS
ORIGINALLY FILED

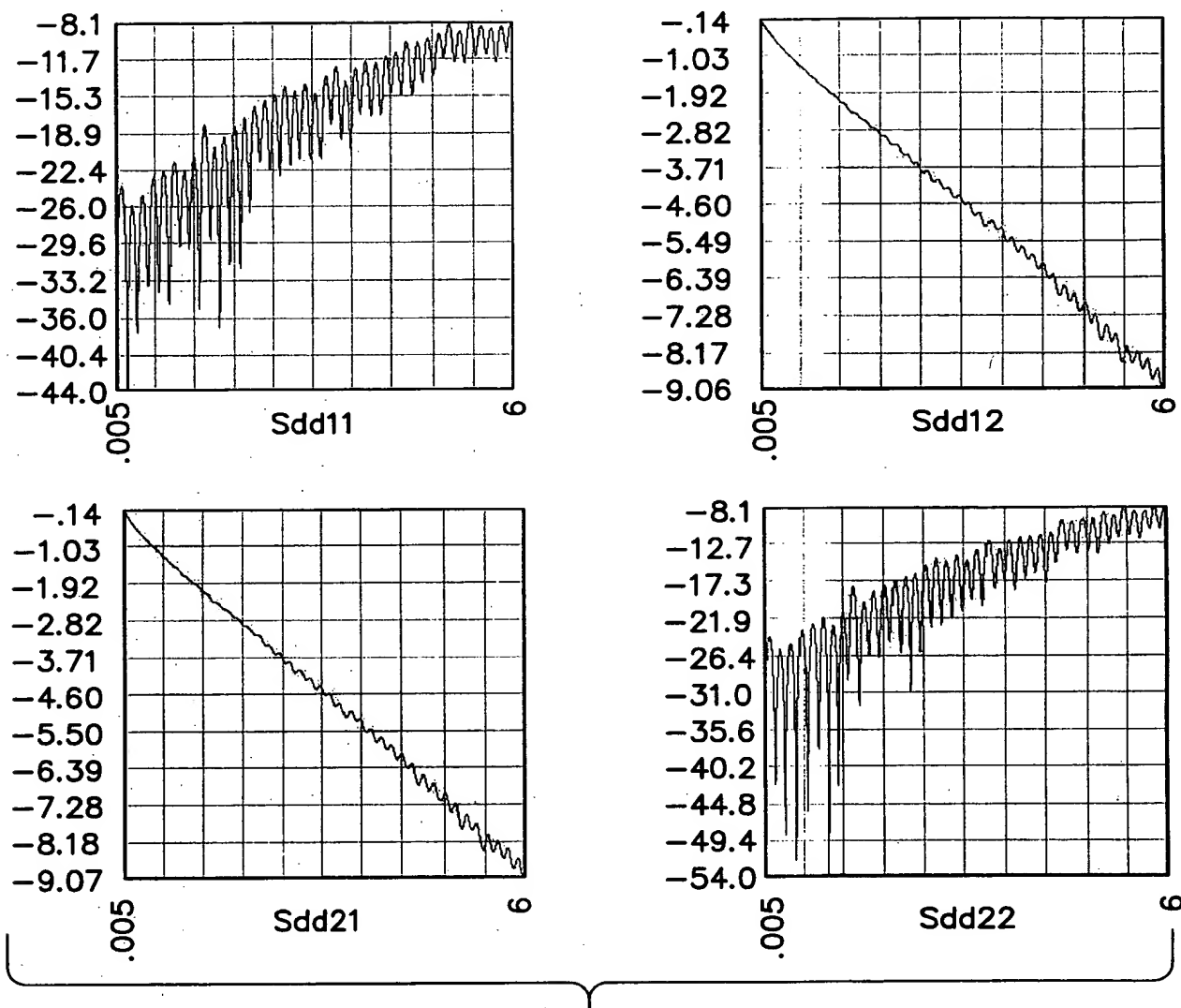


FIG. 18A



18/43

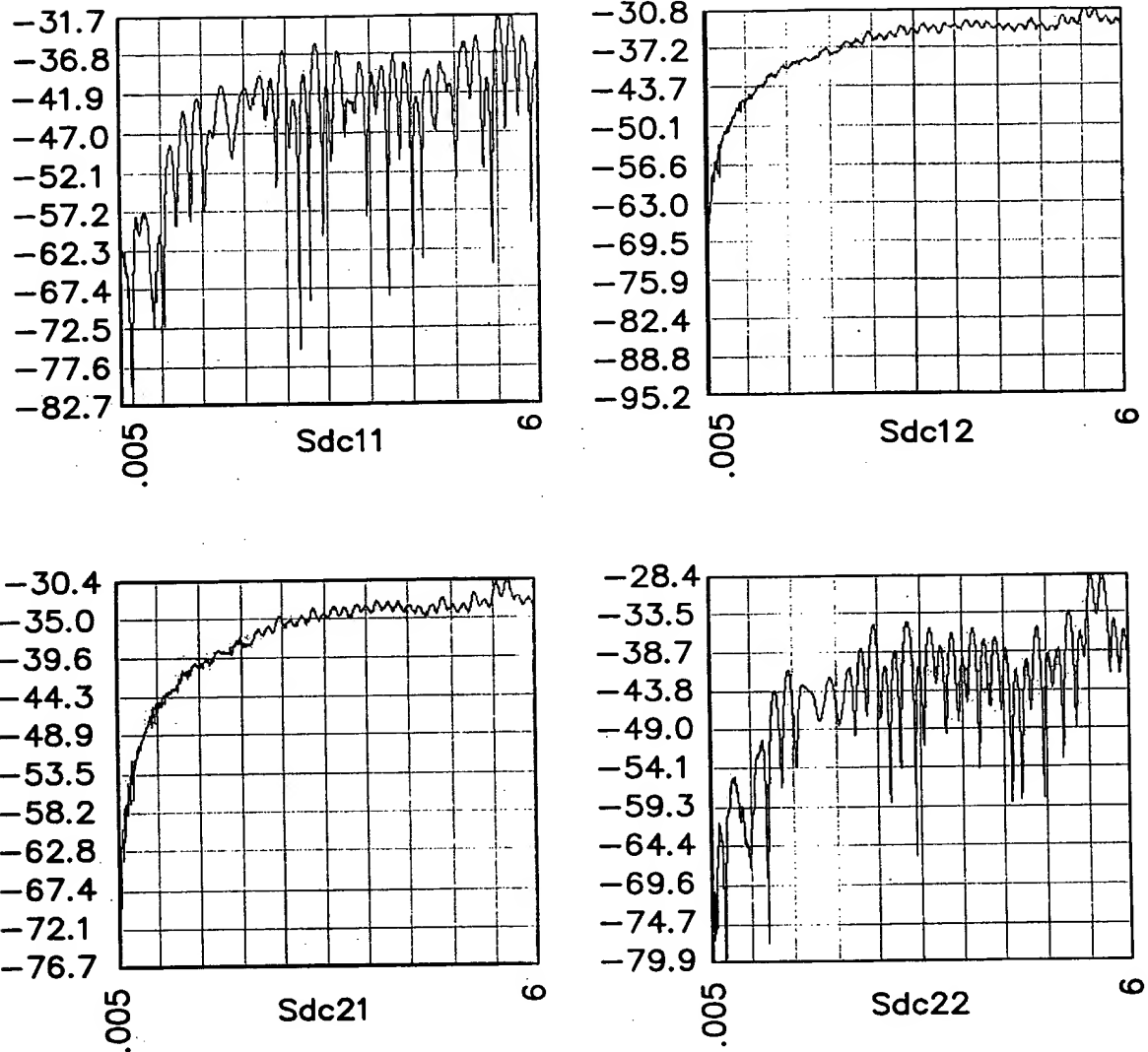


FIG. 18B



19/43

COPY OF PAPERS
ORIGINALLY FILED

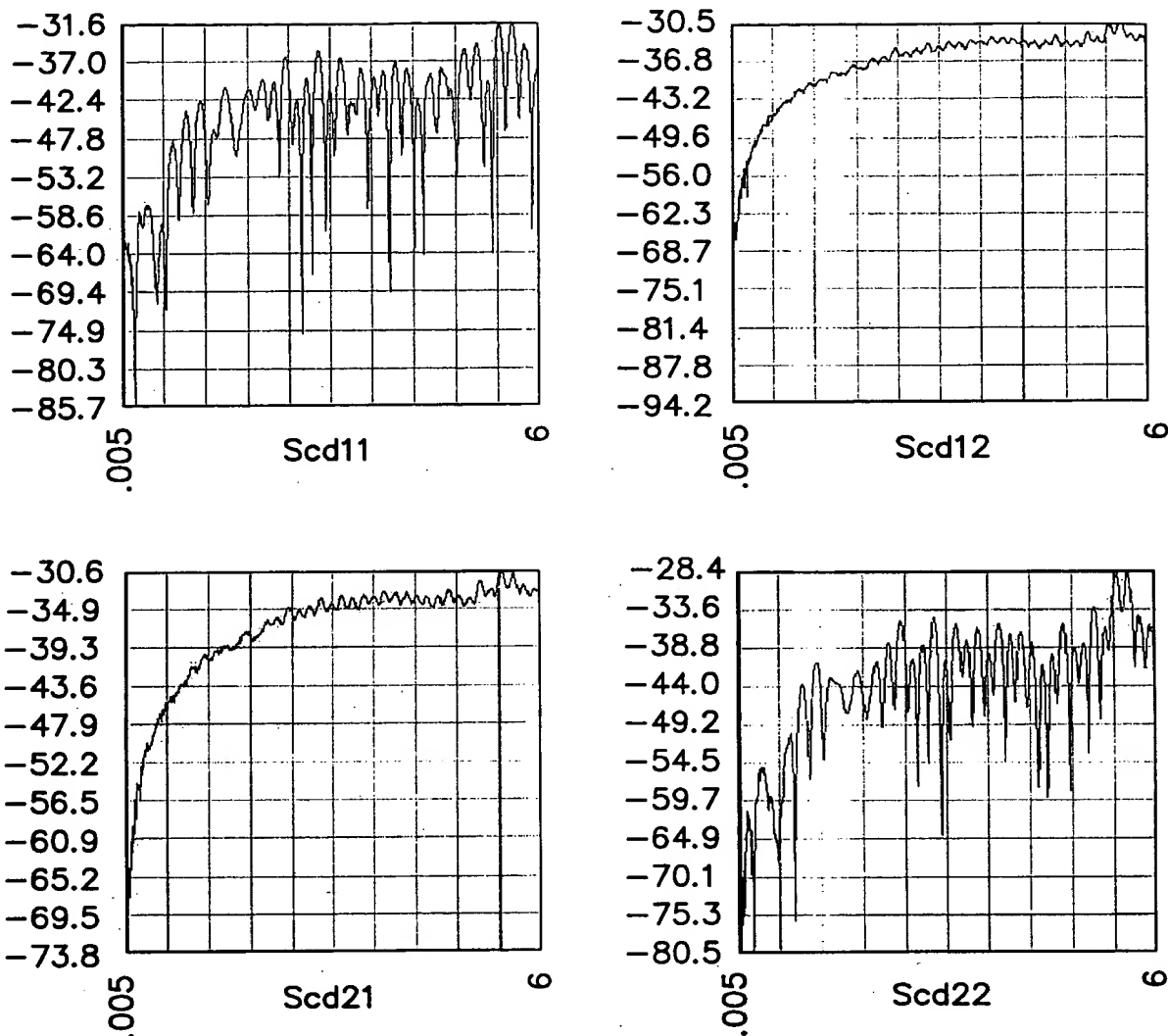


FIG. 18C



20/43

COPY OF PAPERS
ORIGINALLY FILED

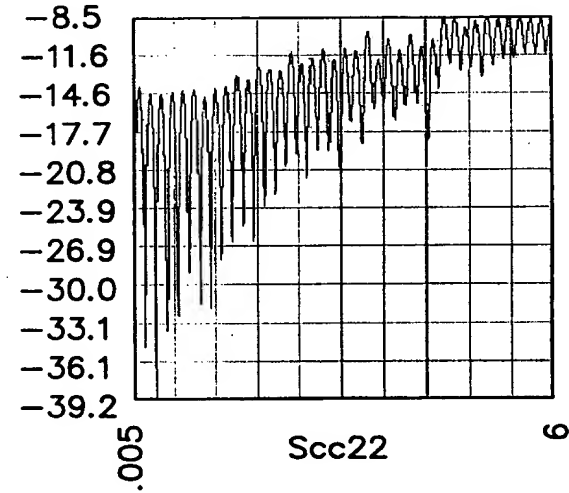
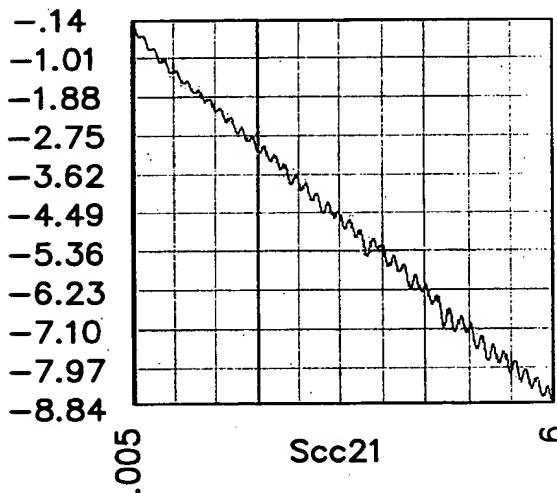
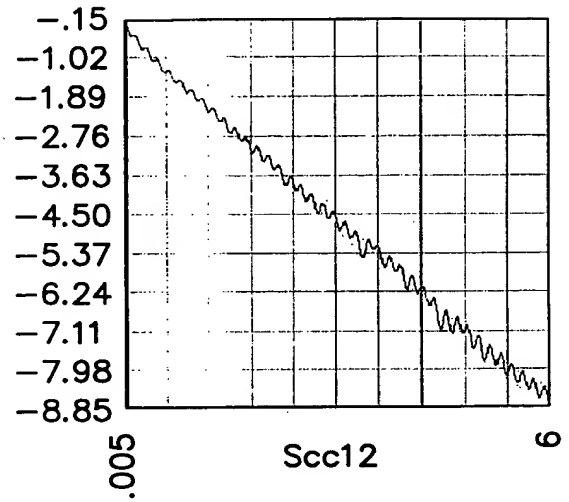
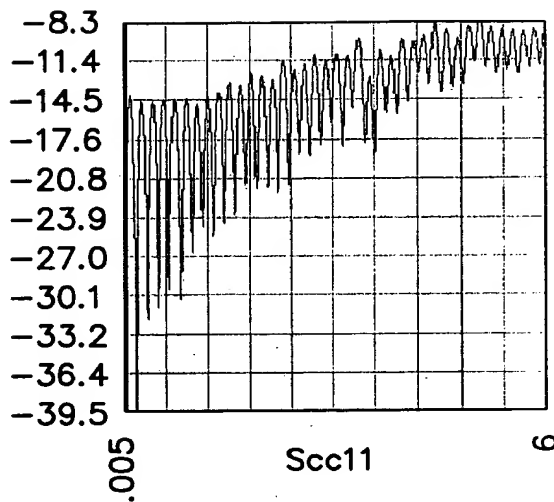


FIG. 18D



COPY OF PAPERS
ORIGINALLY FILED

21/43

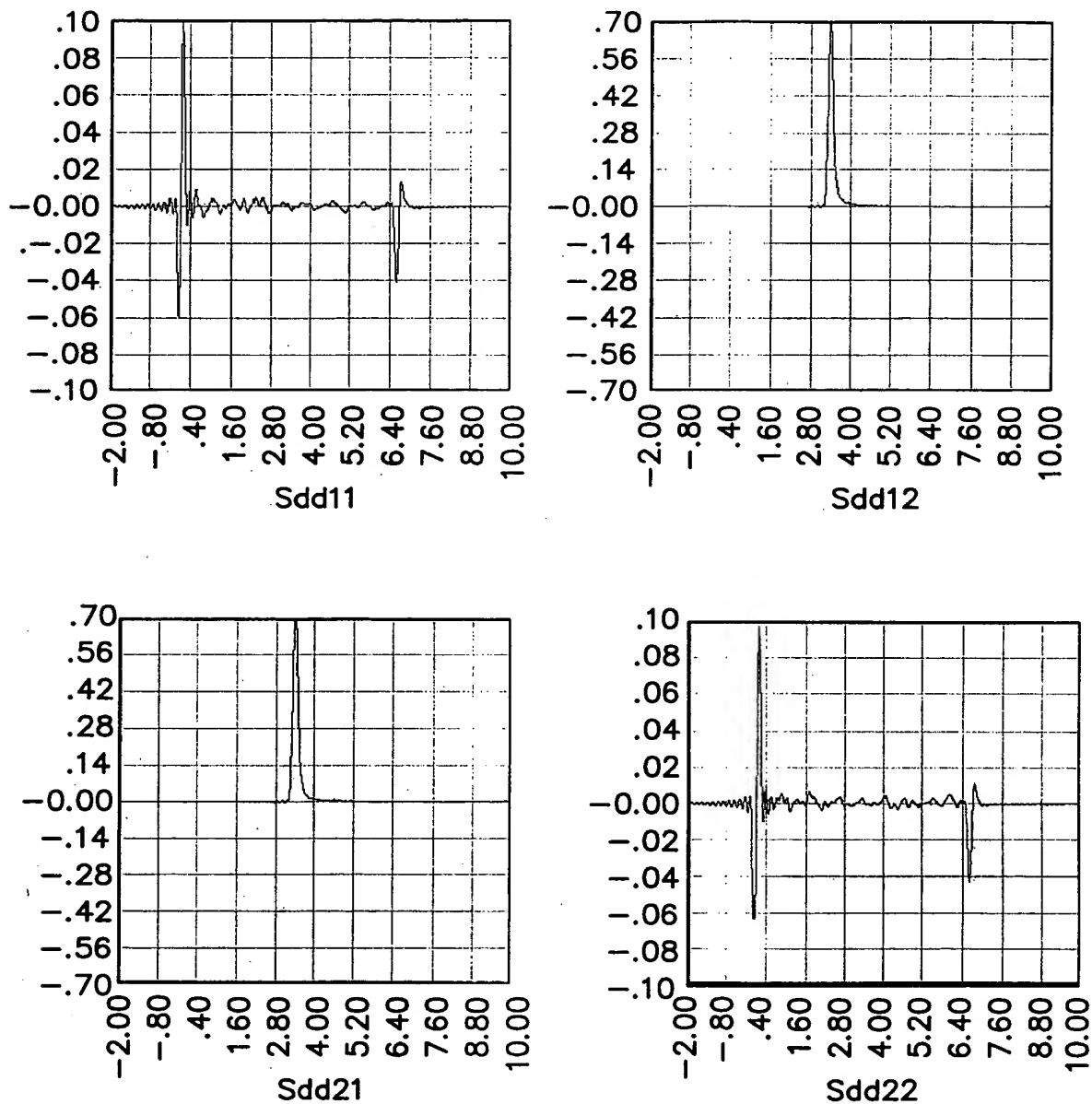


FIG. 19A



22/43

COPY OF PAPERS
ORIGINALLY FILED

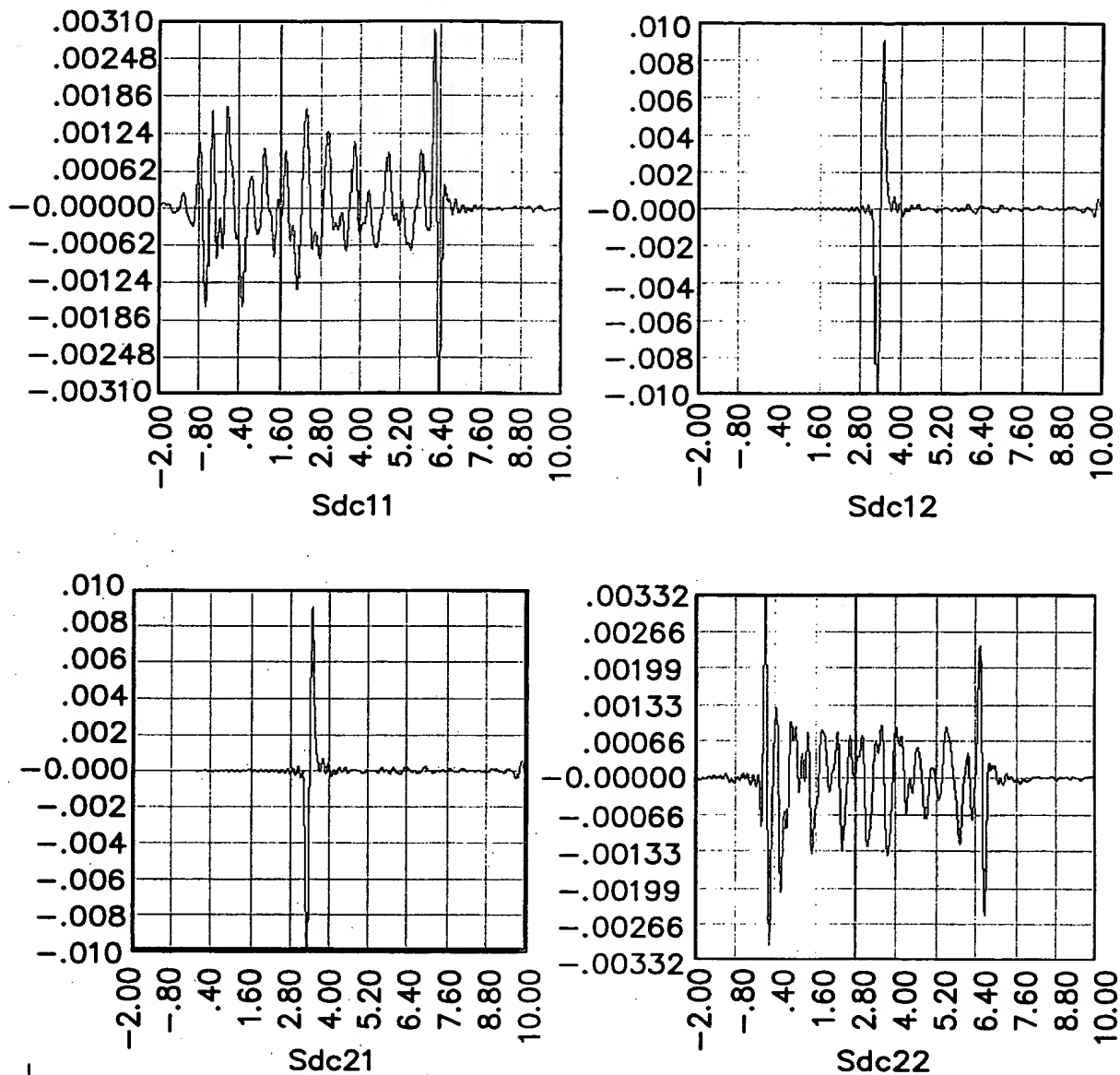


FIG. 19B



23/43

COPY OF PAPERS
ORIGINALLY FILED

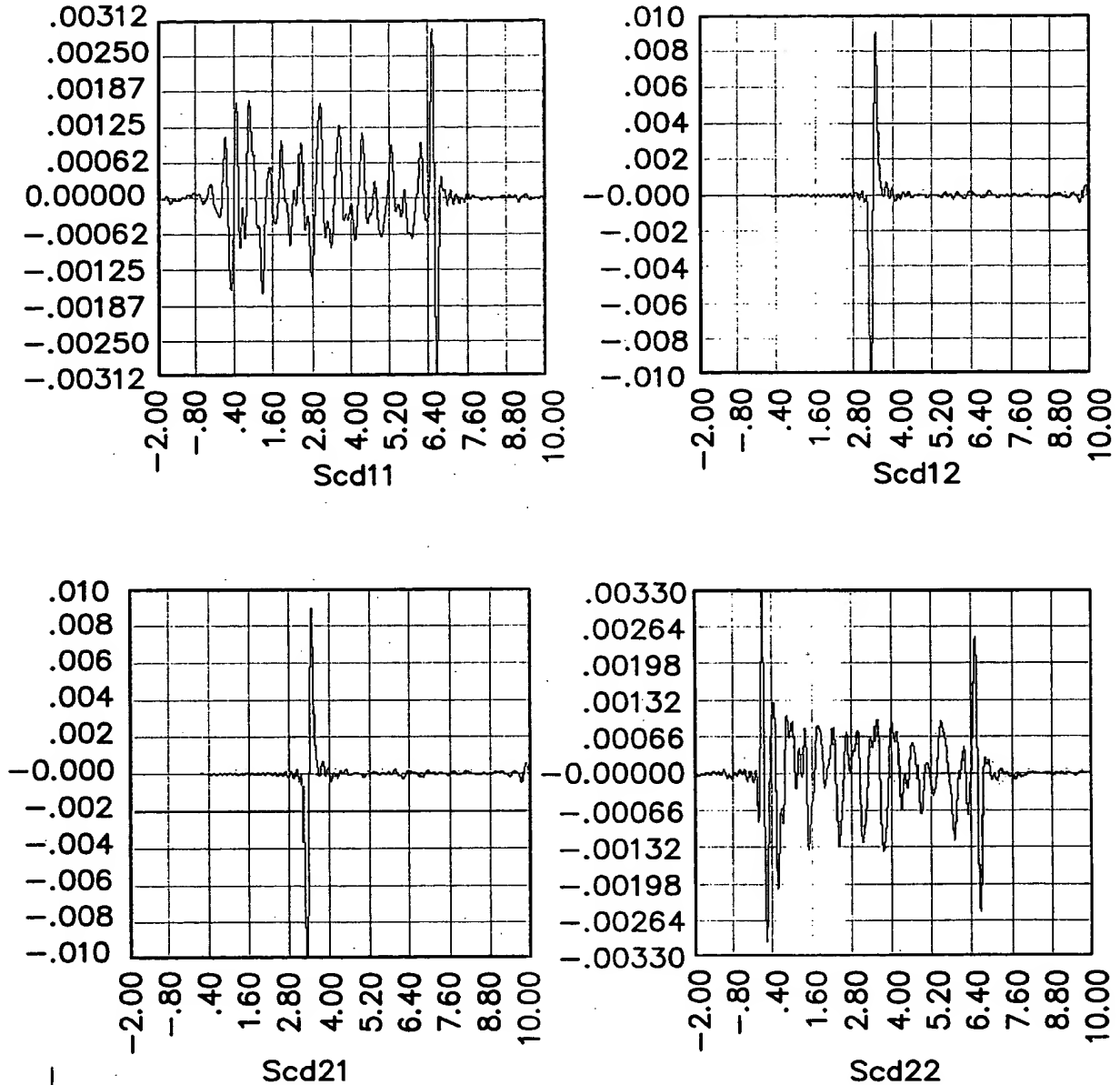


FIG. 19C



24/43

COPY OF PAPERS
ORIGINALLY FILED

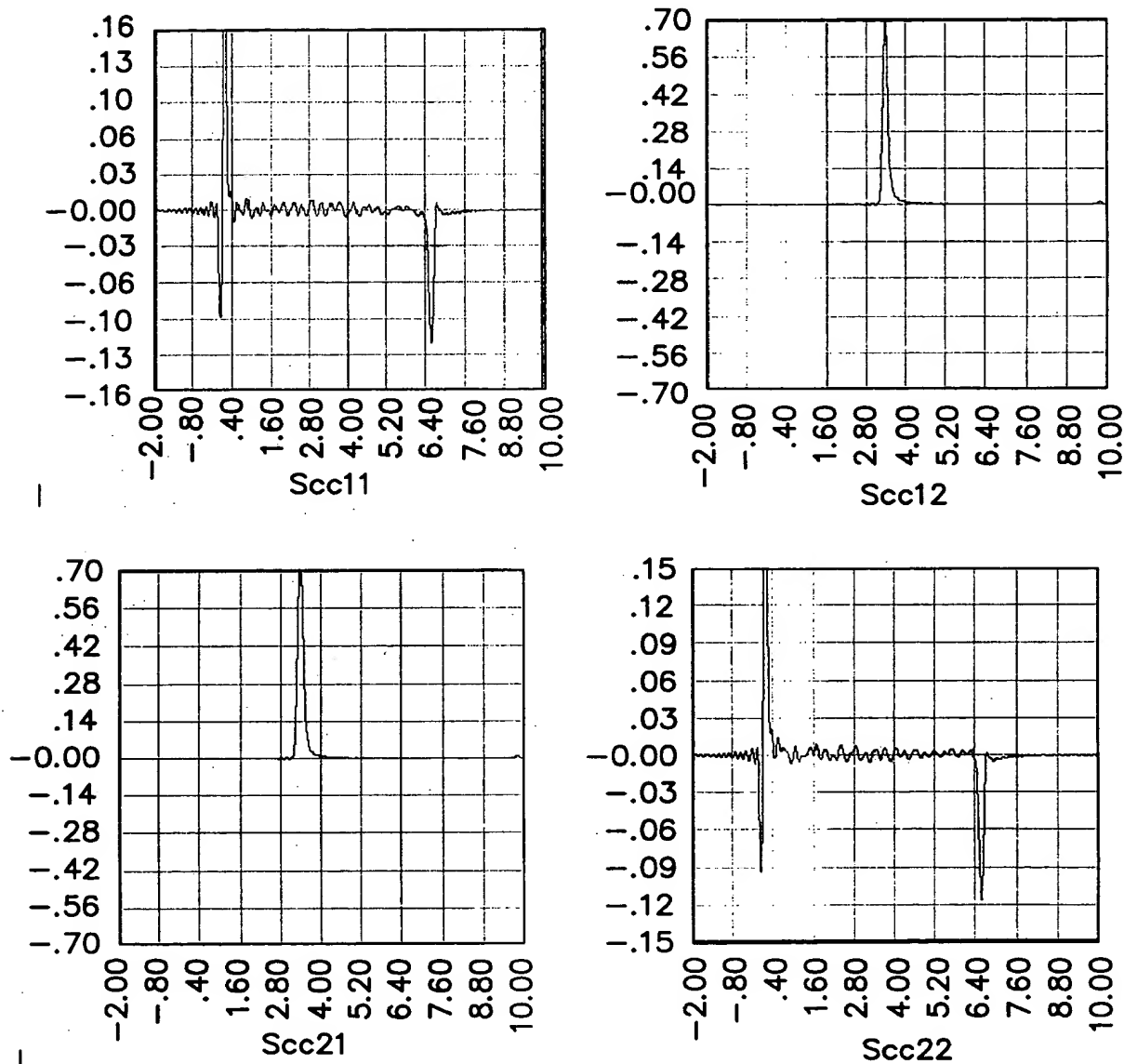
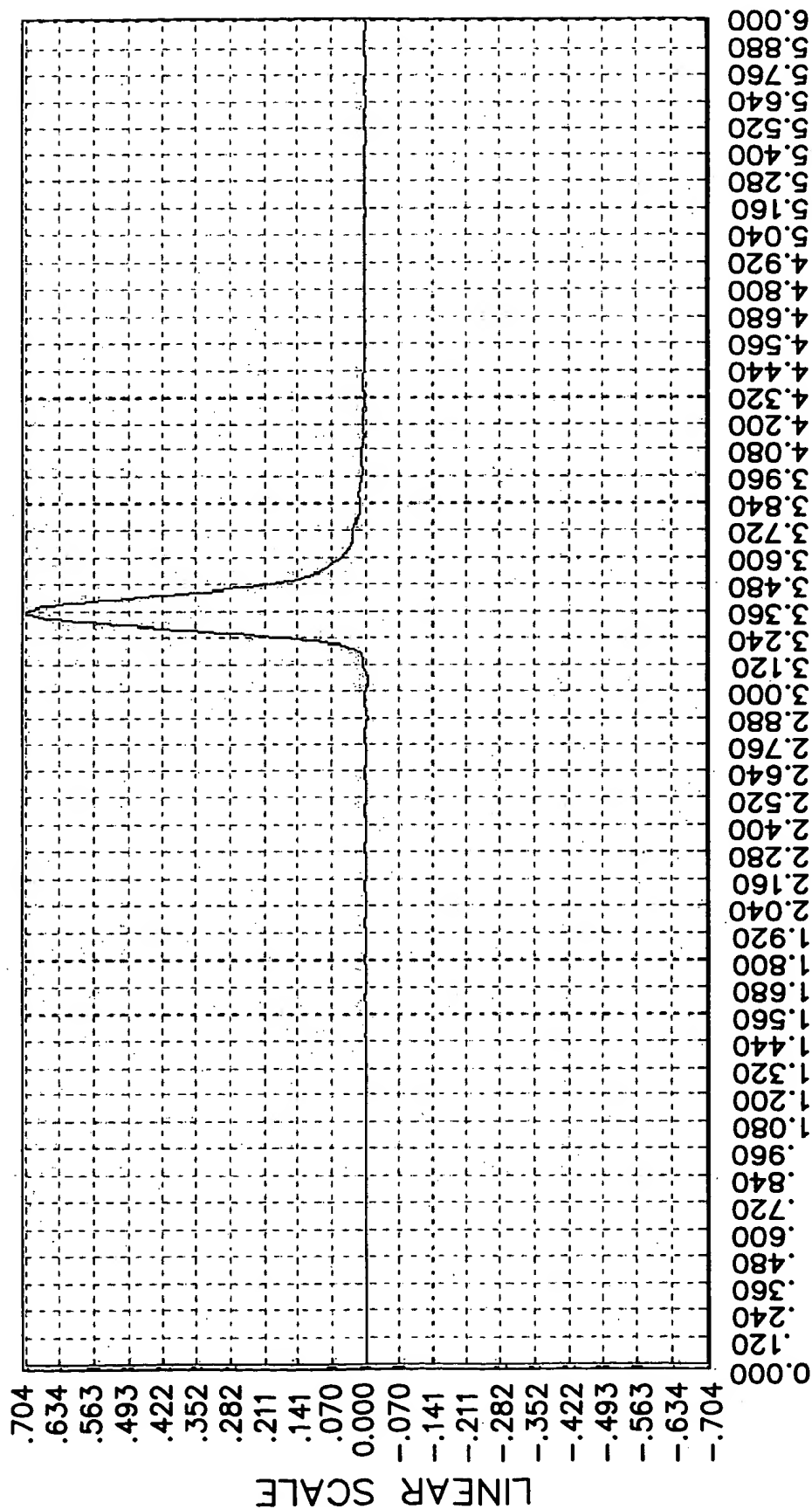


FIG. 19D



25/43

COPY OF PAPERS
ORIGINALLY FILED

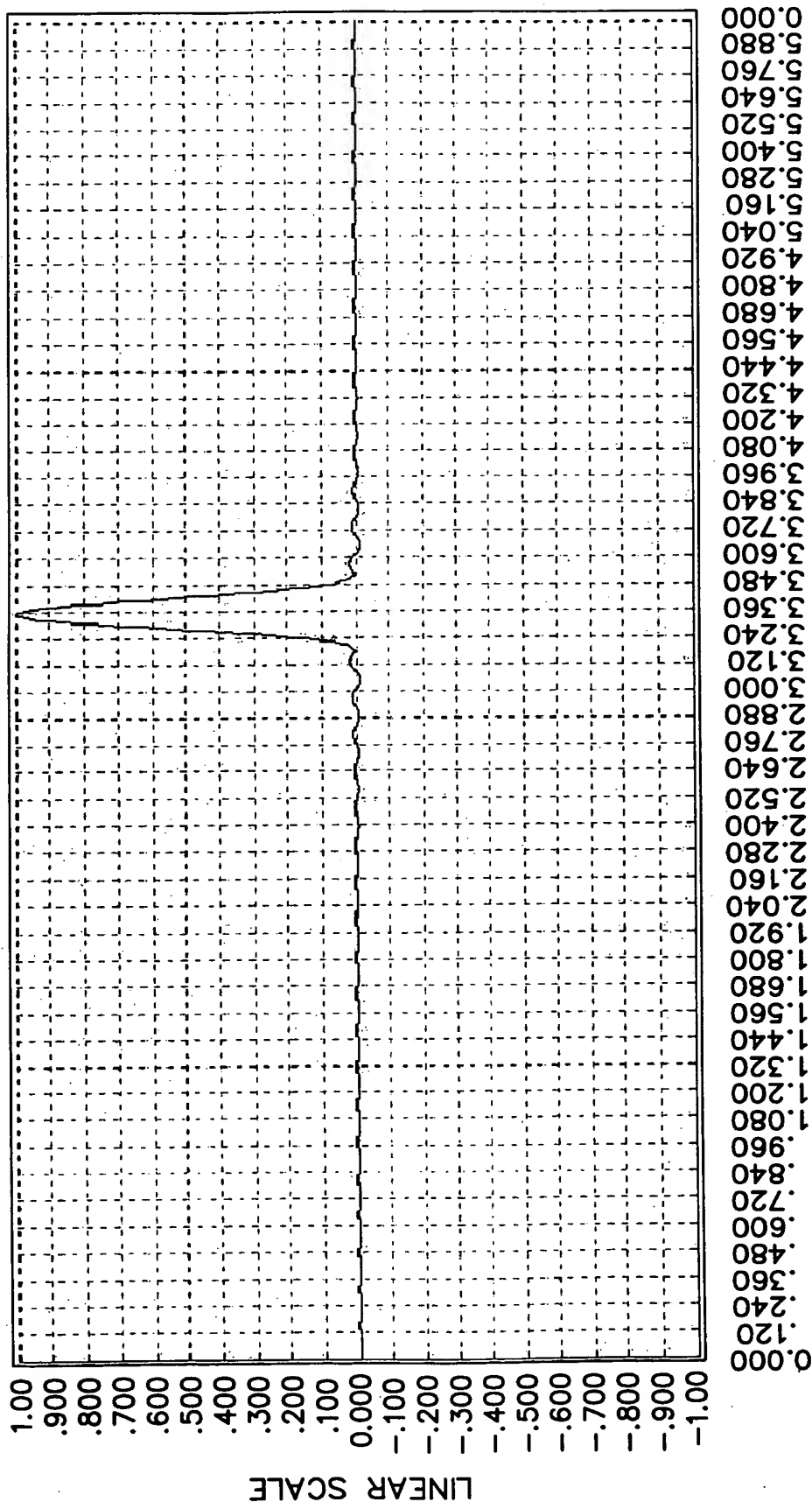


Sdd21 Z01=100 & z02=100 Impulse Response vs Time in Nsec. Resolution is .005 Nsec

FIG 20



26/43



Sdd21 Z01=100 & Z02=100 Impulse Response vs Time in Nsec. Resolution is .005 Nsec

FIG 21



27/43

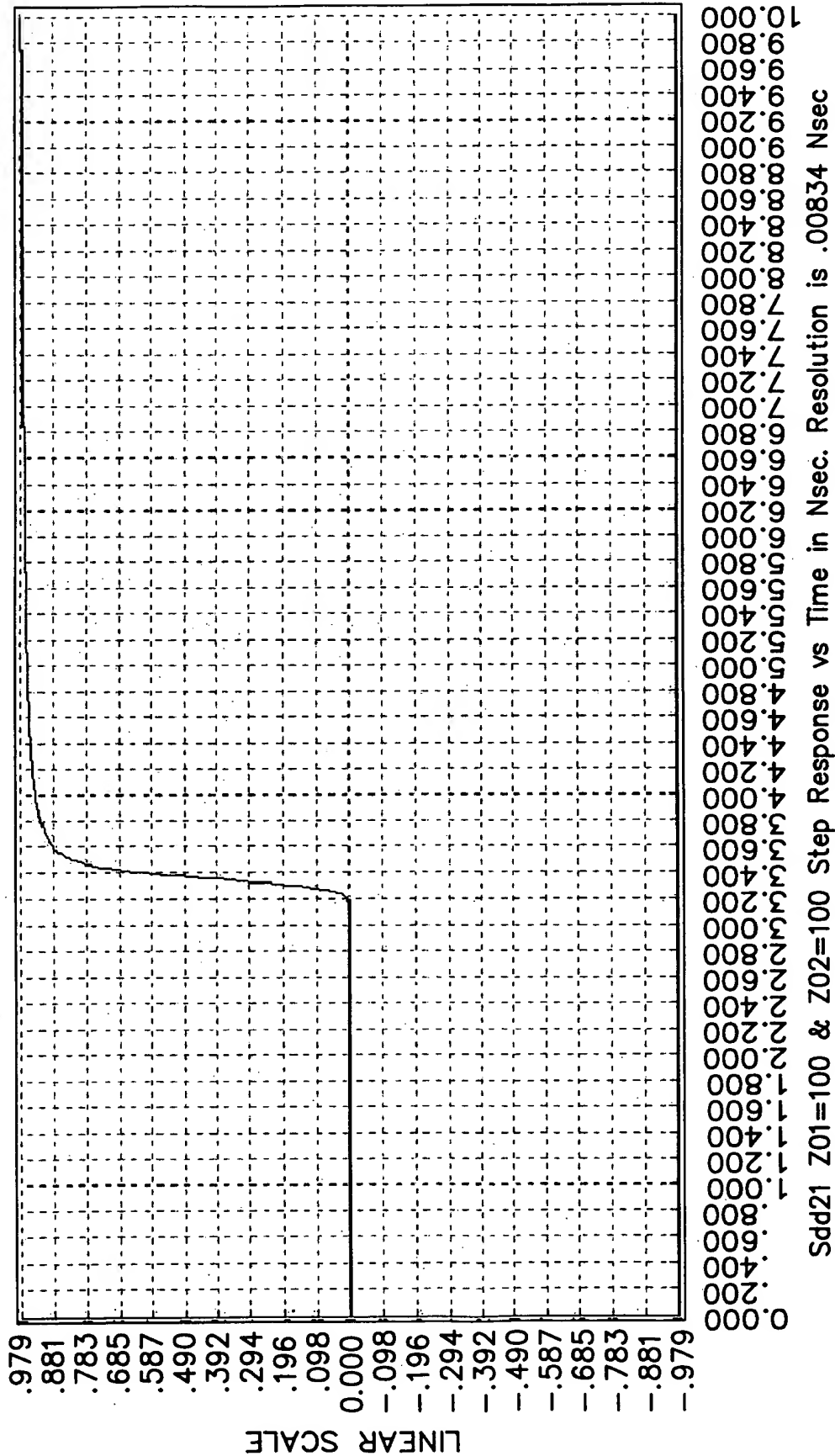


FIG 22



28/45

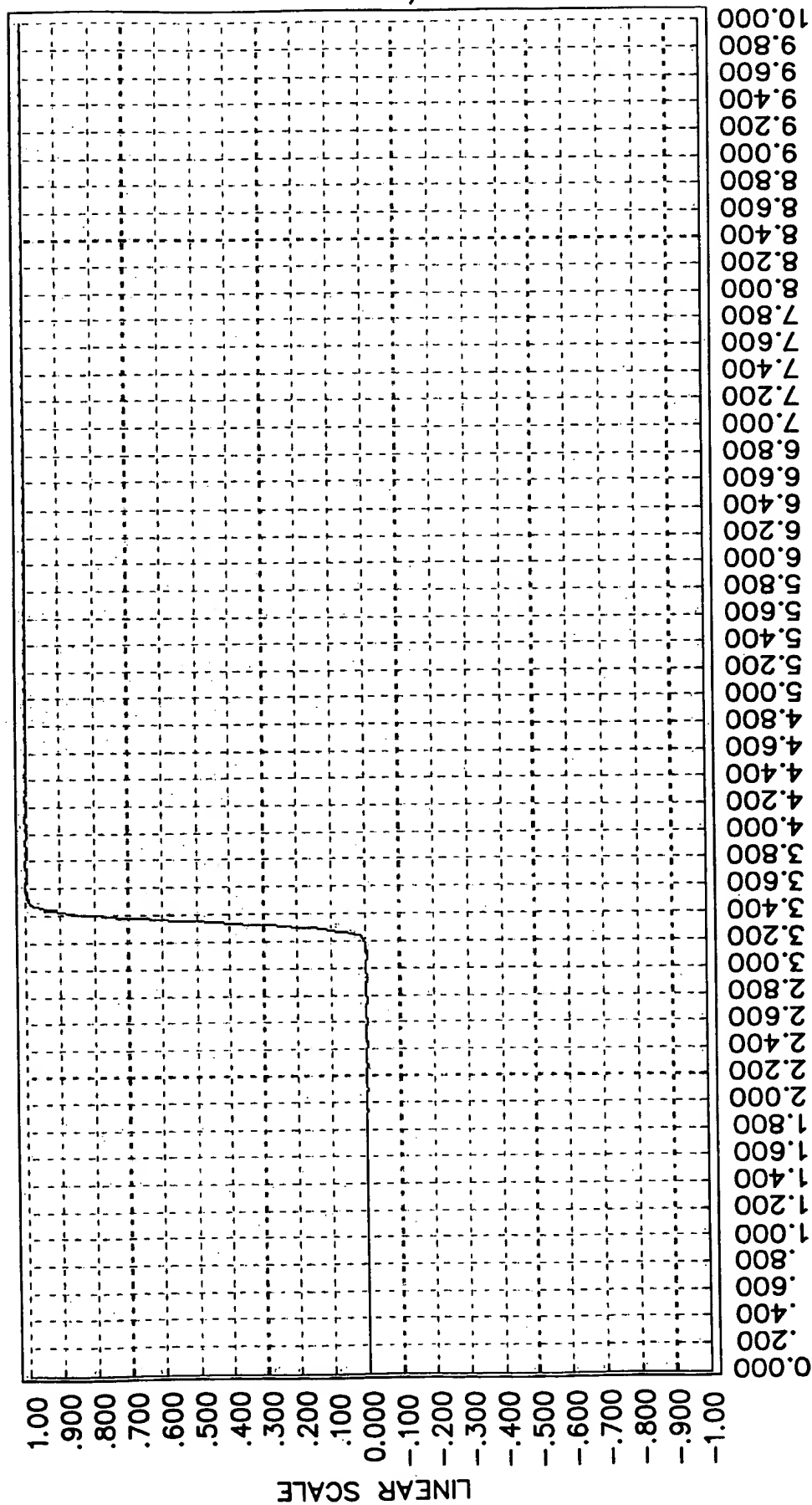


FIG 23

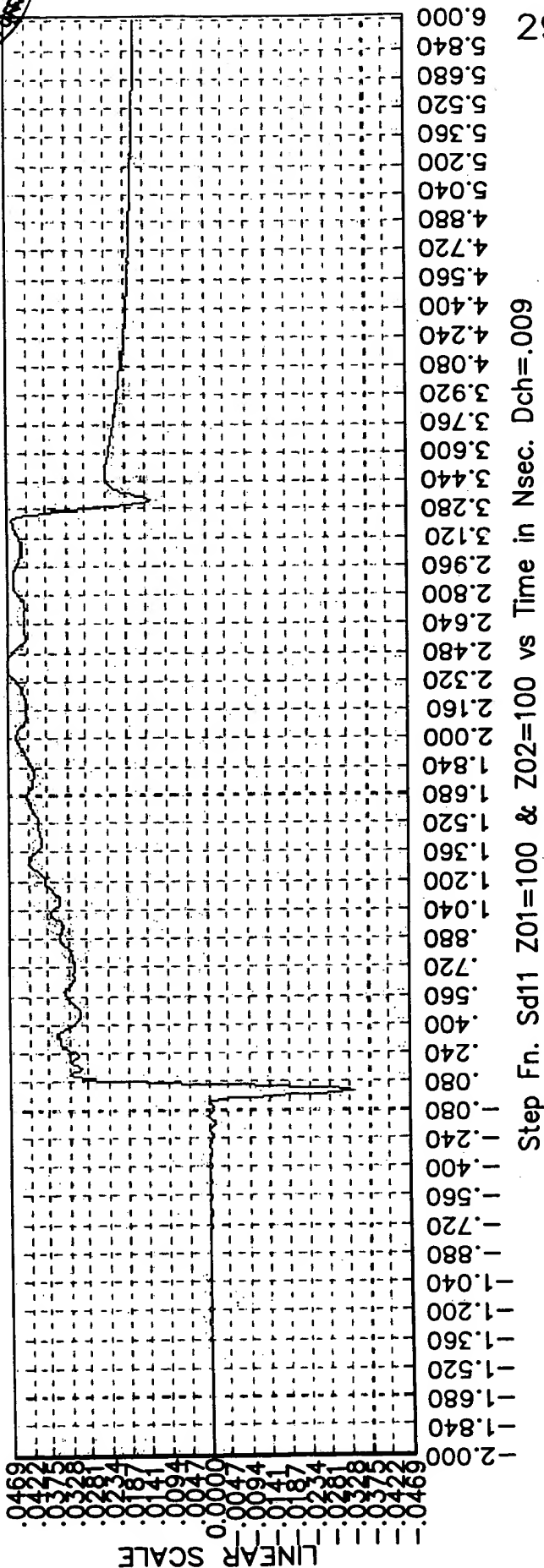


FIG. 24(a)



COPY OF PAPERS
ORIGINALLY FILED

00'9 30/43

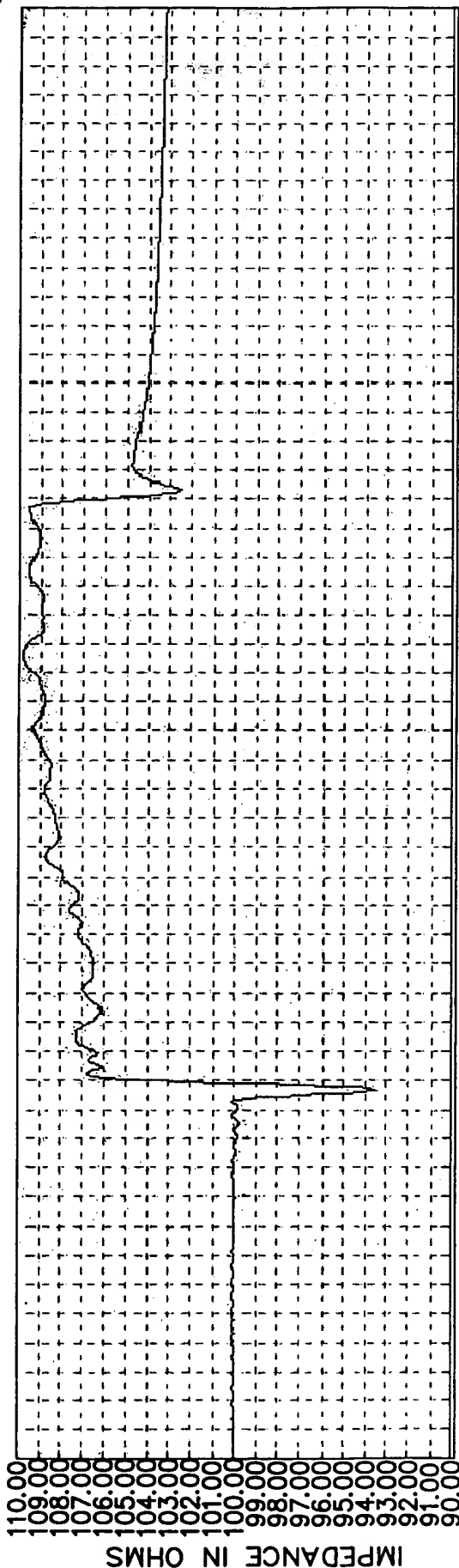
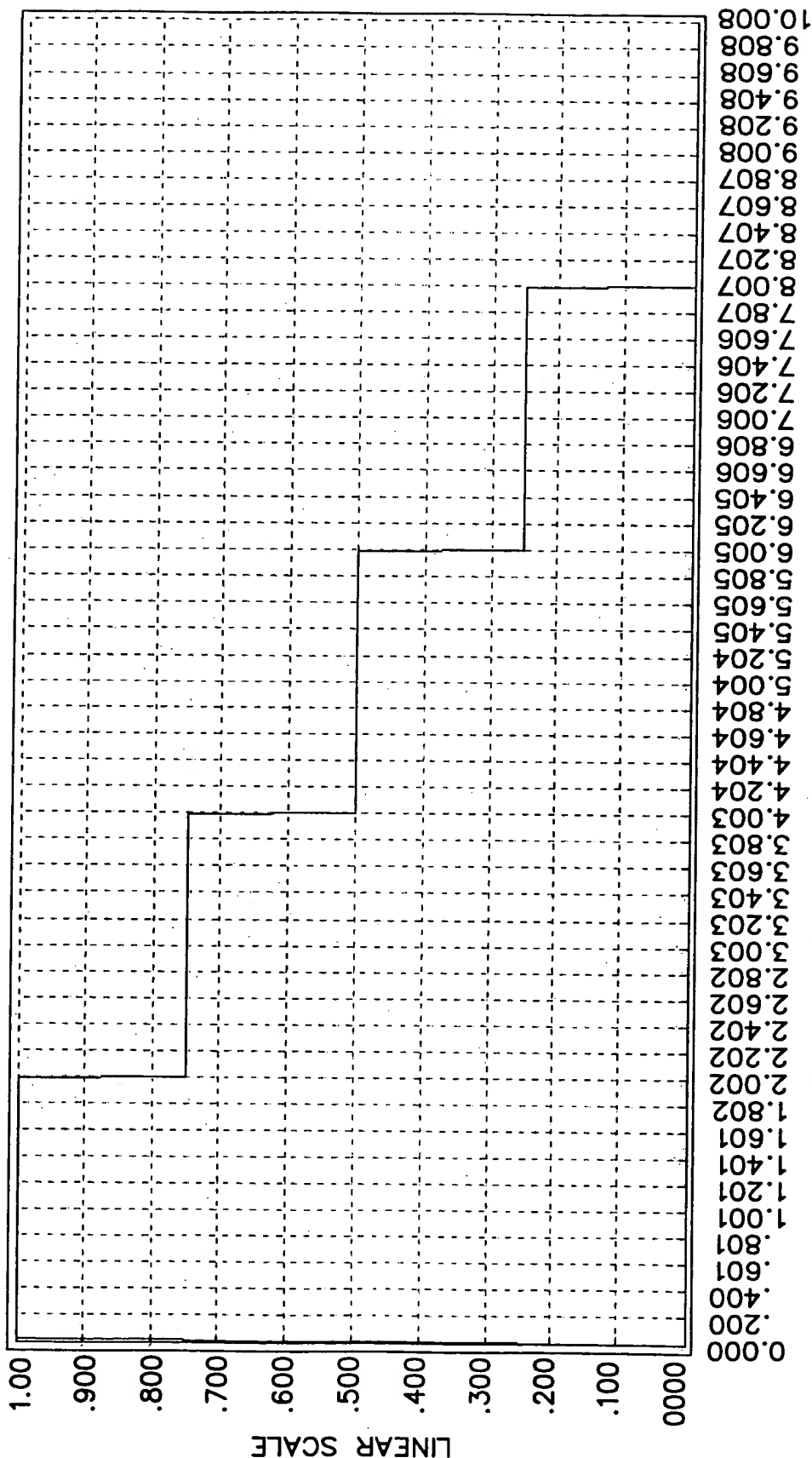


FIG. 24(b)



31/43





32/43

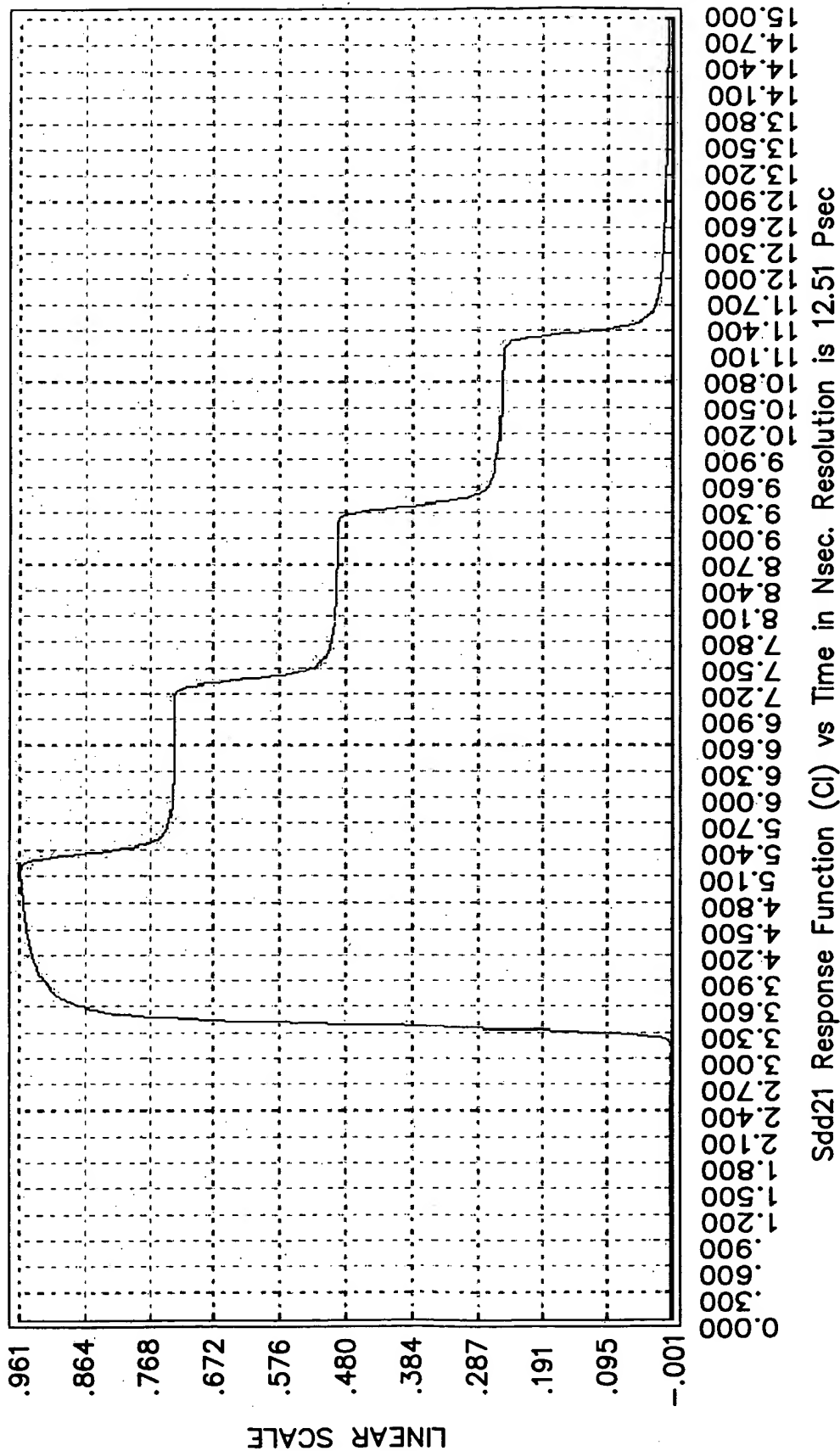


FIG. 26



33/43

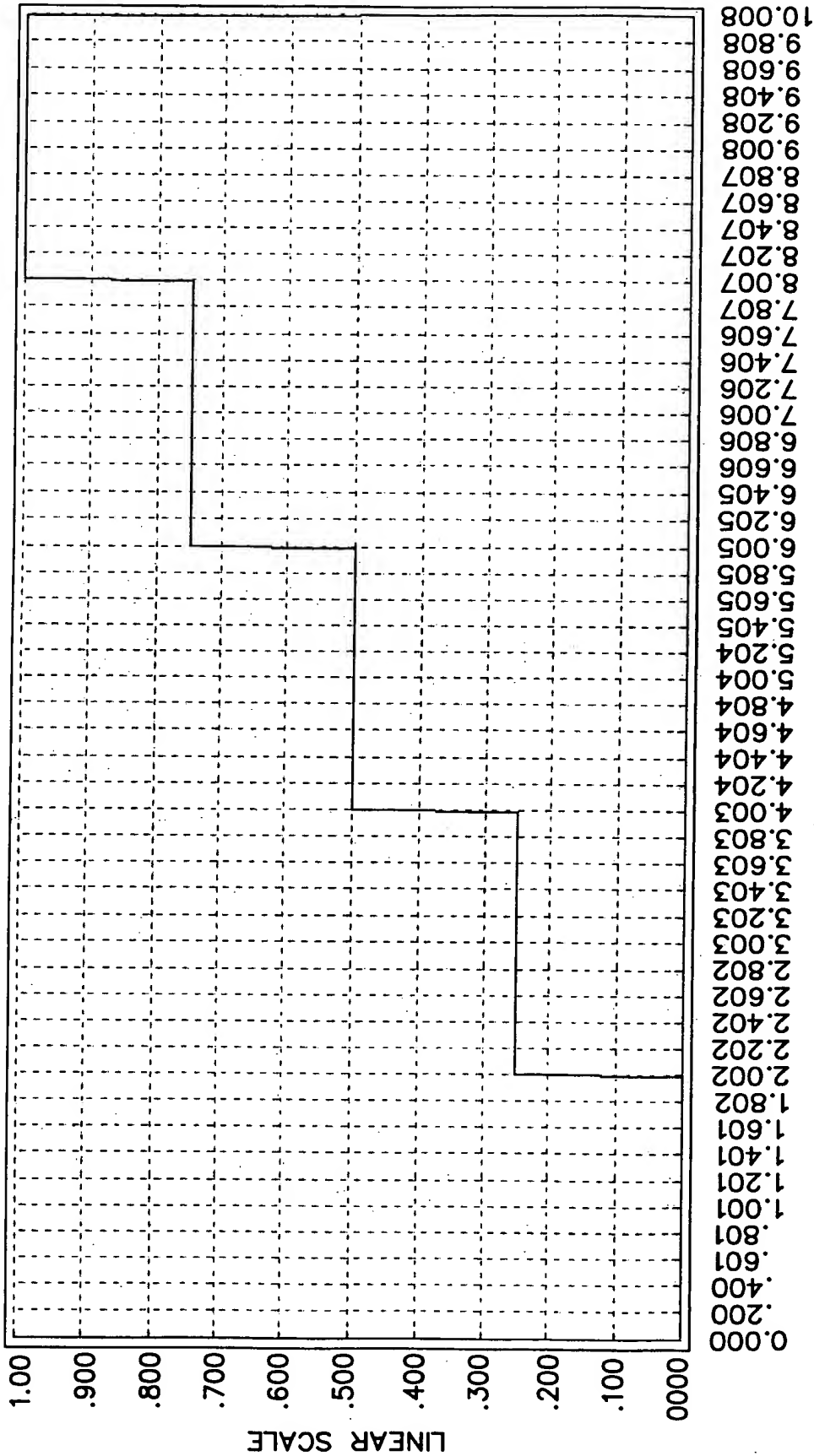
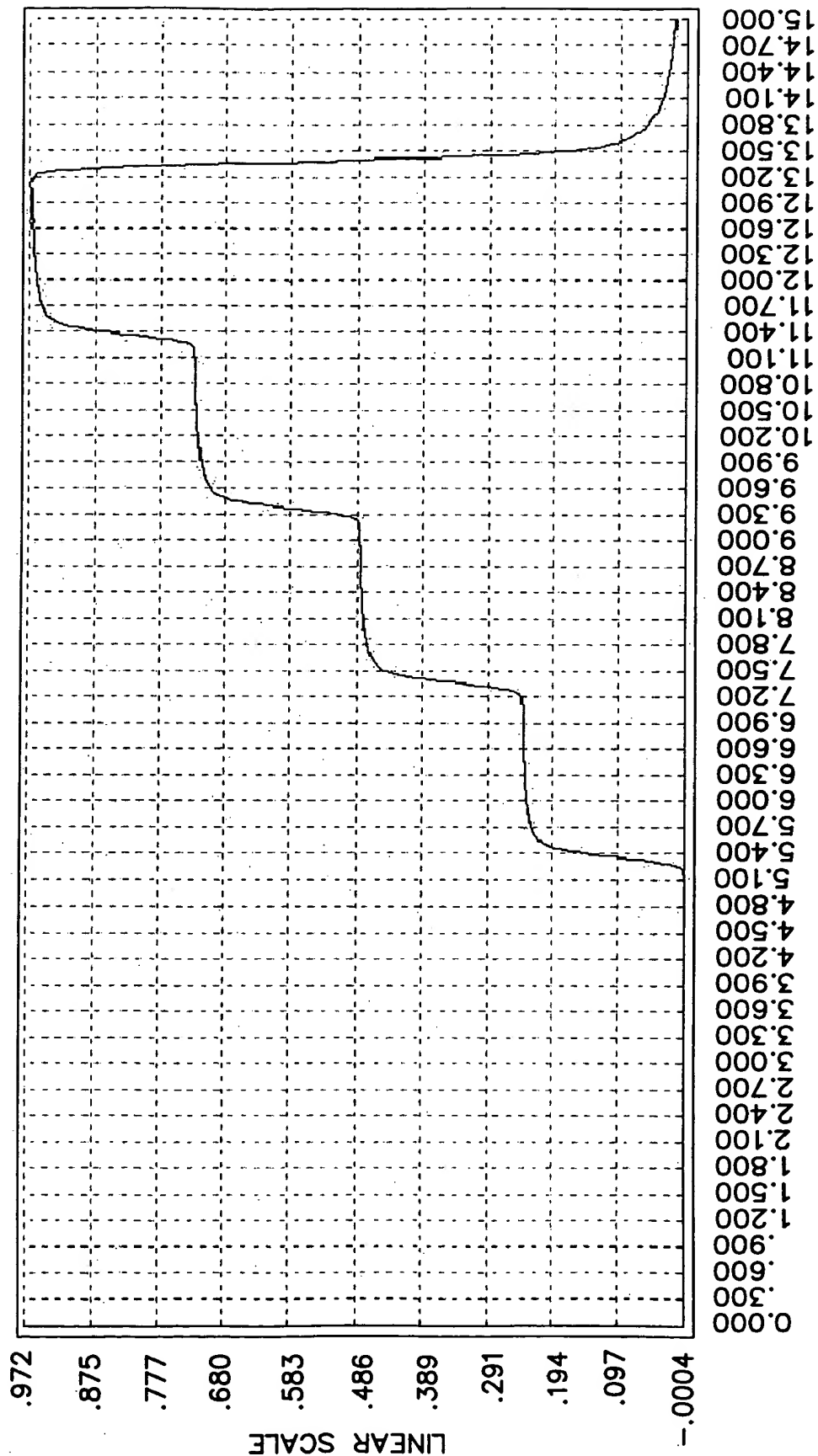


FIG 27



34/43

COPY OF PAPERS
ORIGINALLY FILED

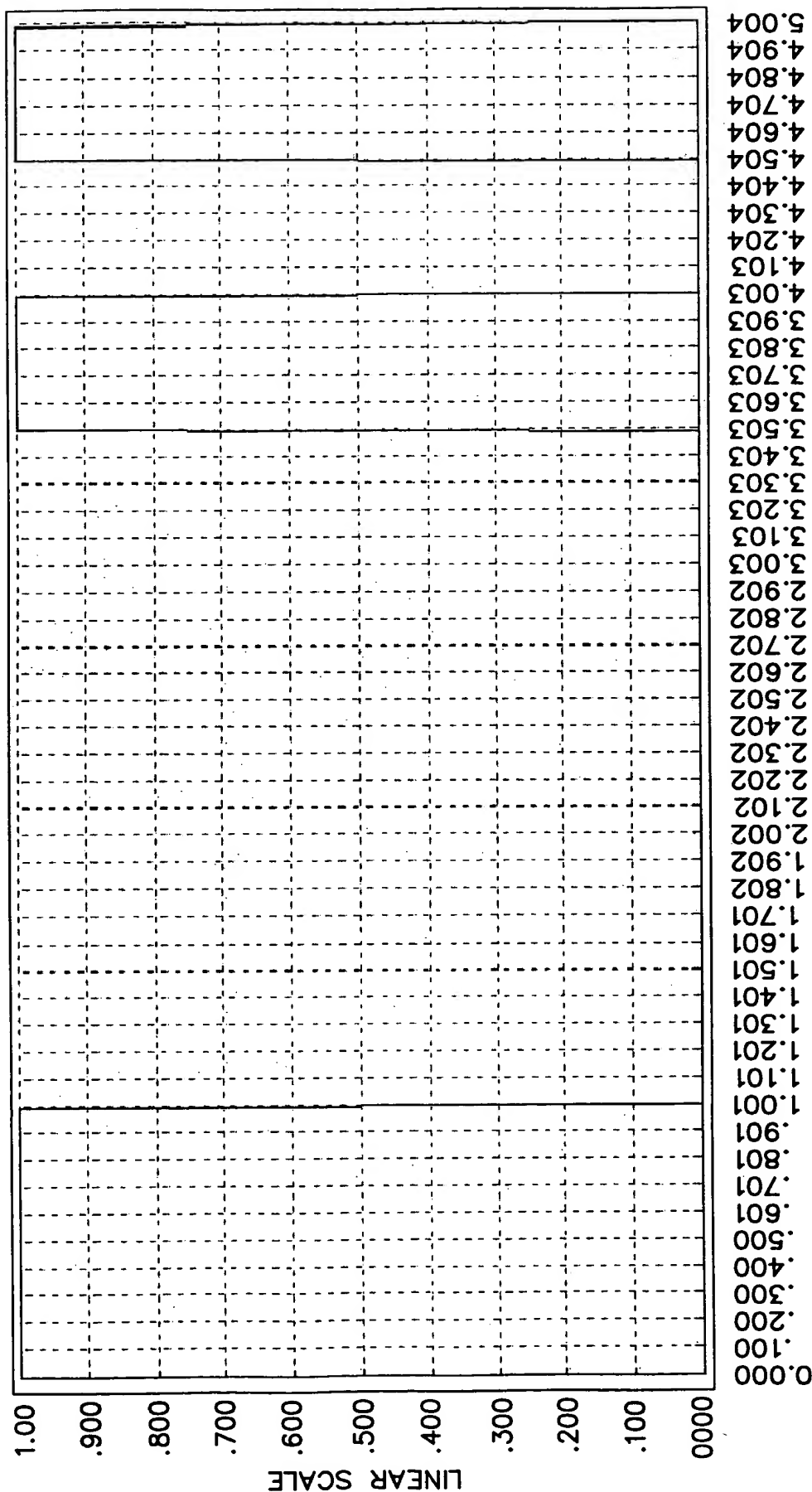


Sdd21 Response Function (CI) vs Time in Nsec. Resolution is 12.51 Psec

FIG 28



35/43



Forcing Fn is K28.5 Pulses (1100000101) vs Time in Nsec. Resolution is 8.34 Psec

FIG. 29



36/43

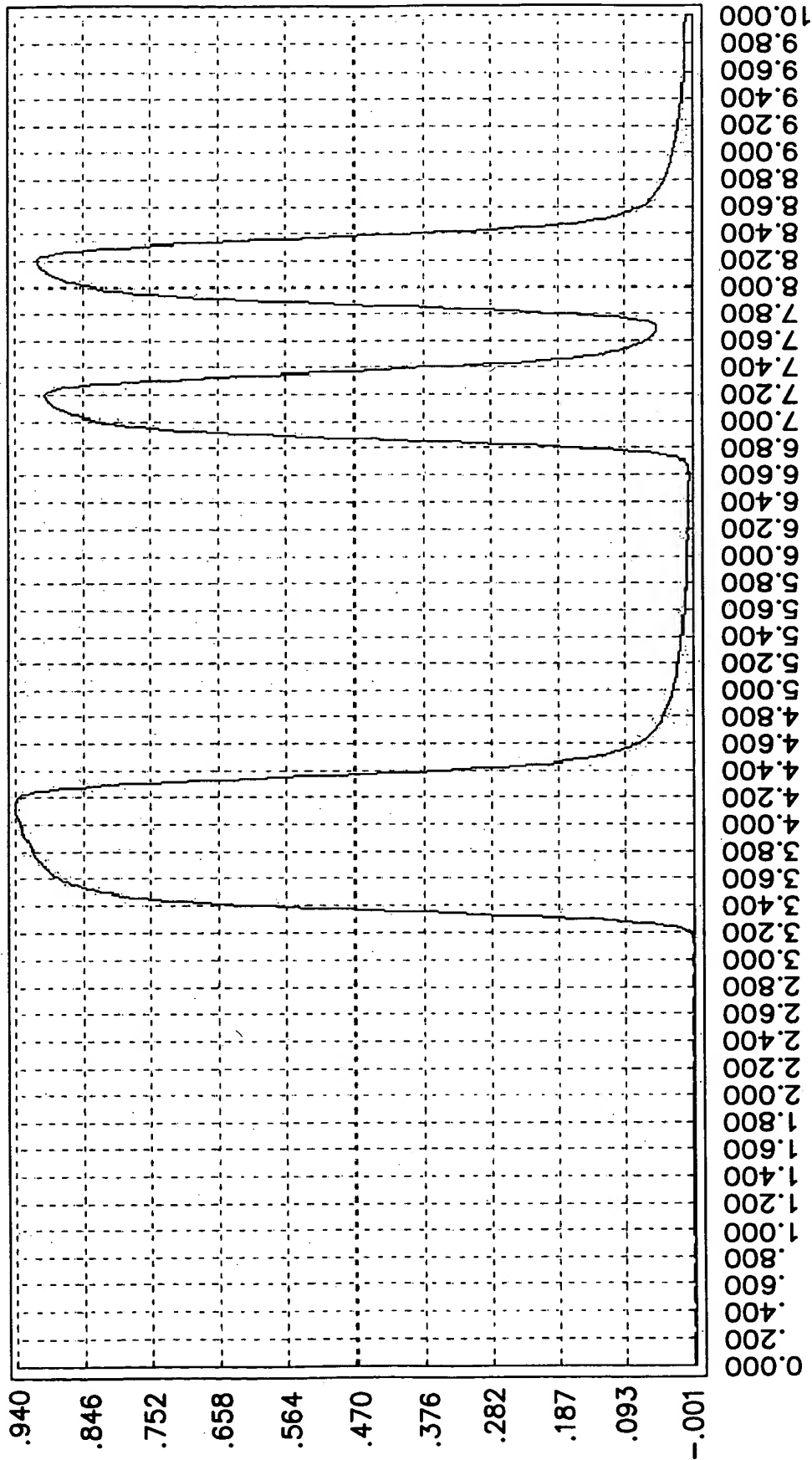
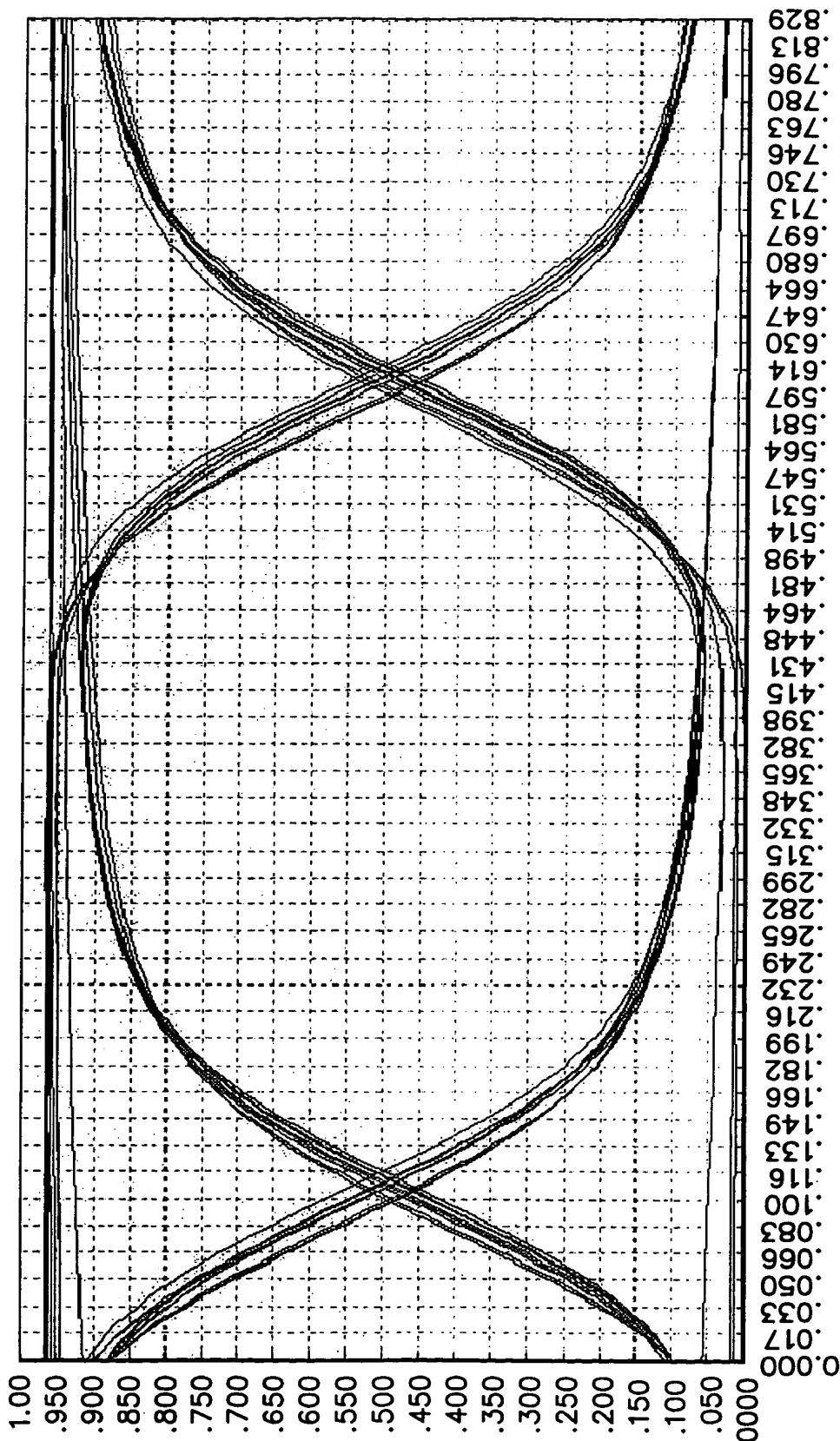


FIG 30



37/43

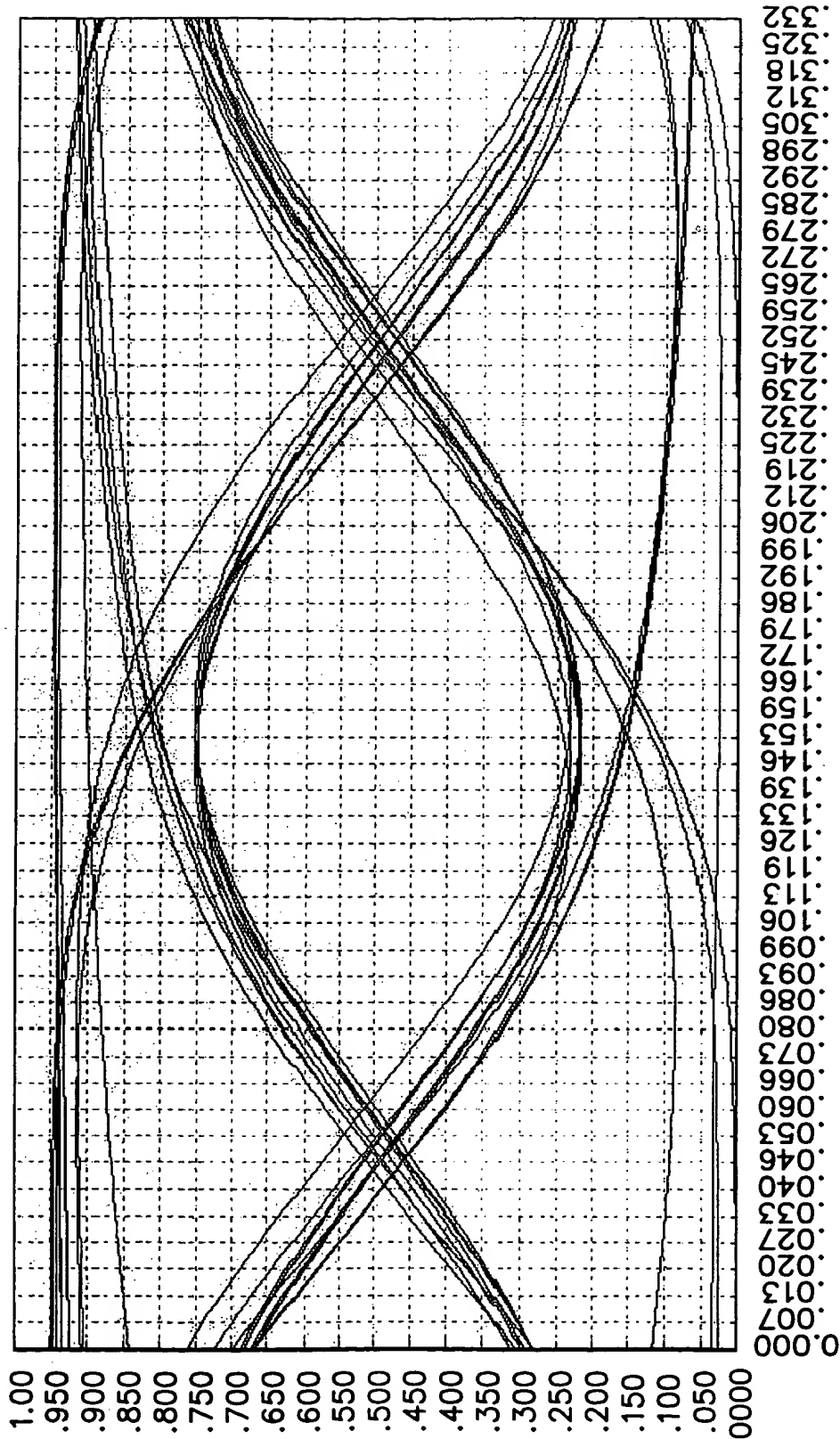


K28.5(1100000101) Digital Bit Pattern at 2Gb/s Data Rate

FIG. 31



38/43



K28.5(1100000101) Digital Bit Pattern at 5 Gb/s Data Rate

FIG 32



39/43

COPY OF PAPERS
ORIGINALLY FILED

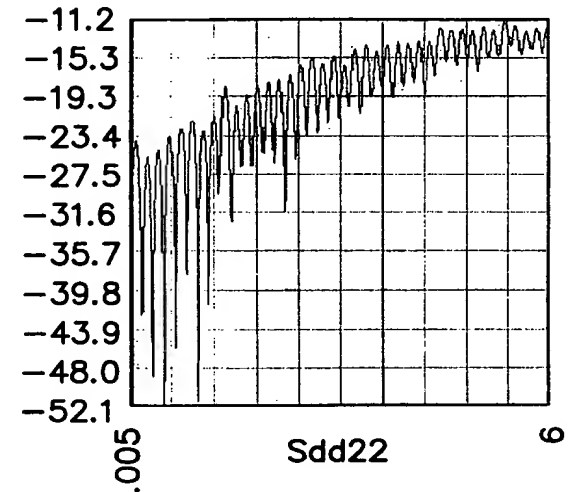
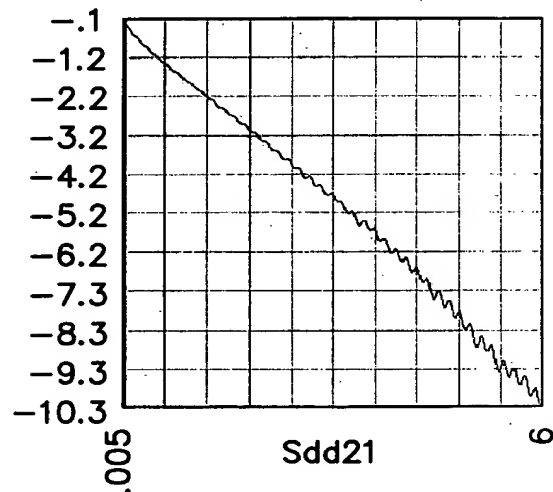
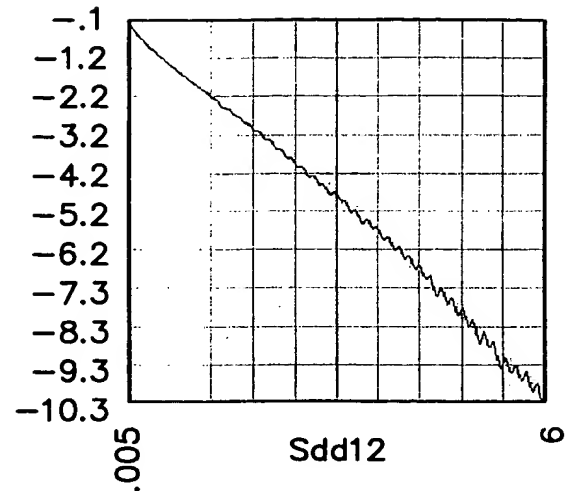
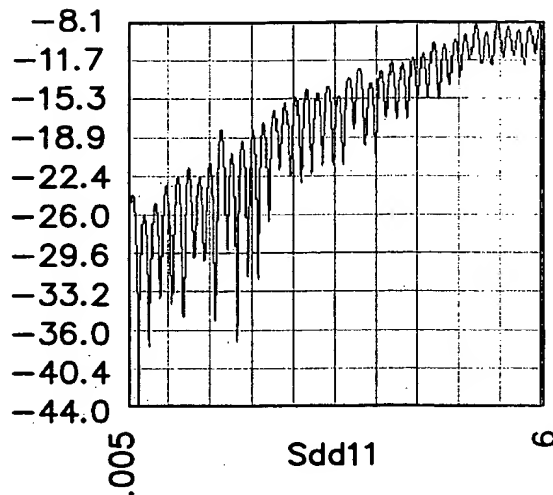


FIG. 33A



40/43

COPY OF PAPERS
ORIGINALLY FILED

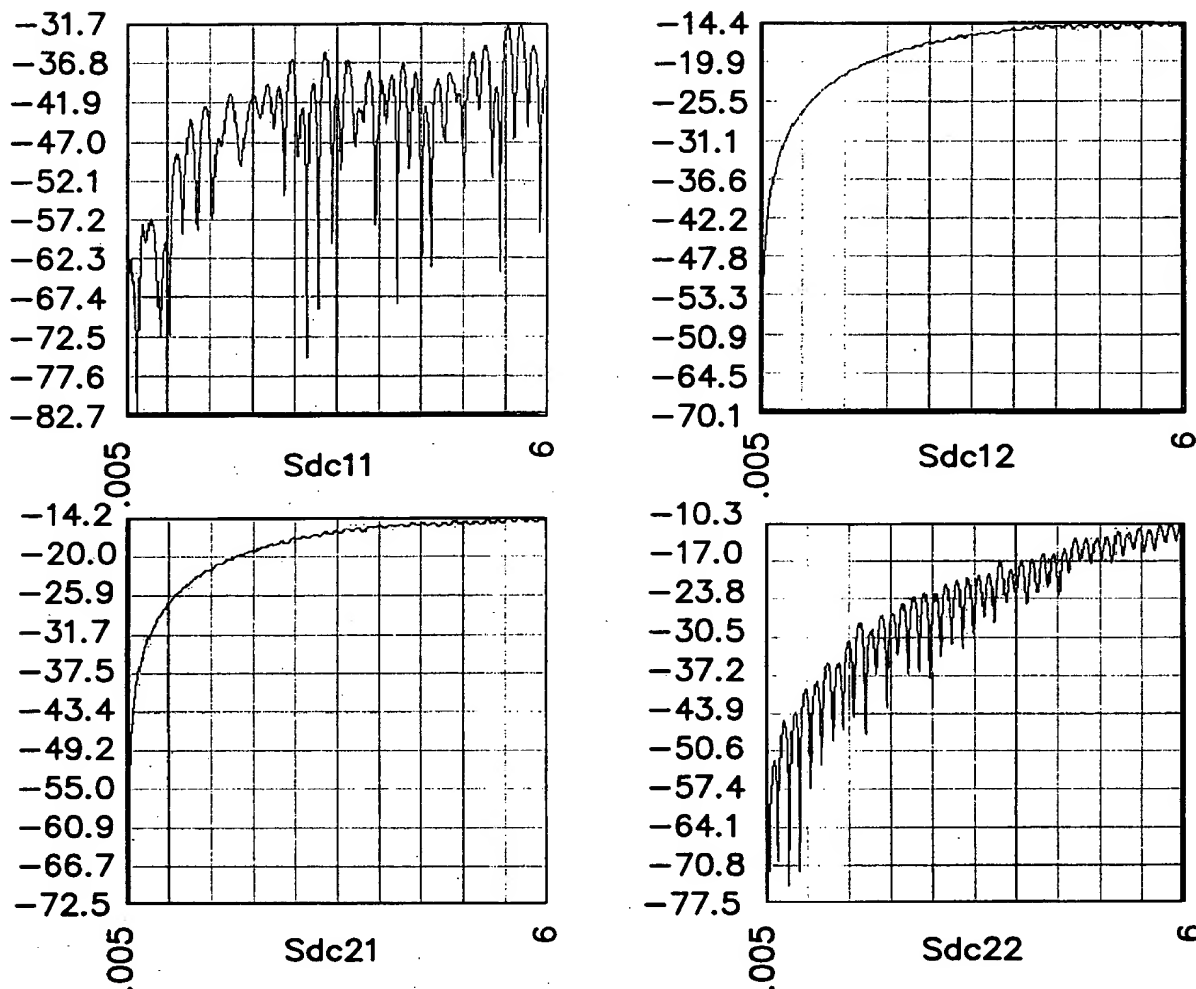


FIG. 33B



41/43

COPY OF PAPERS
ORIGINALLY FILED

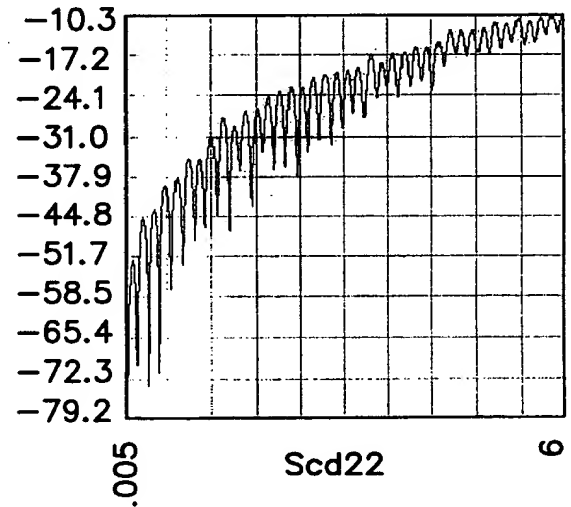
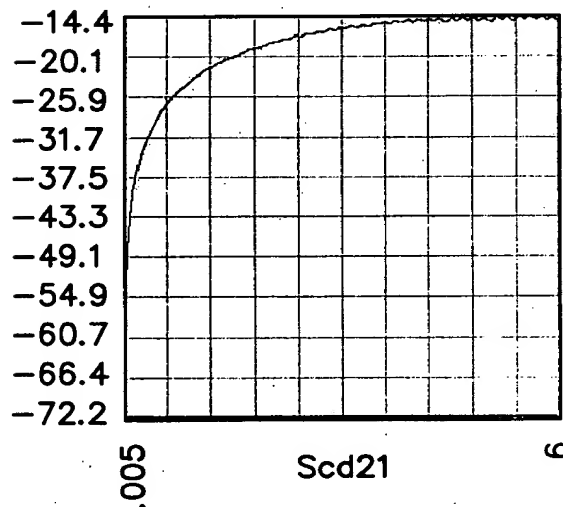
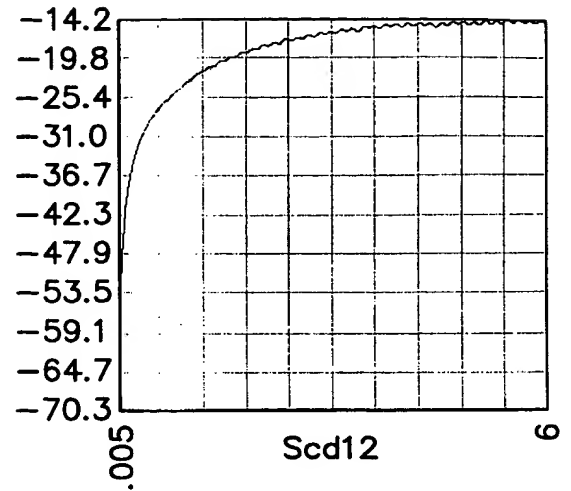
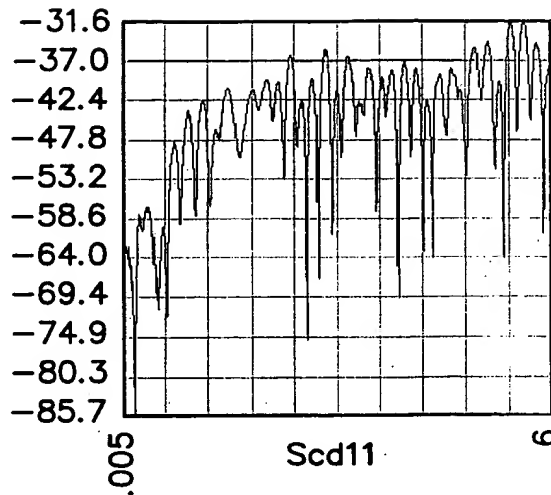


FIG. 33C



42/43

COPY OF PAPER

COPY OF PAPERS
 ORIGINALLY FILED

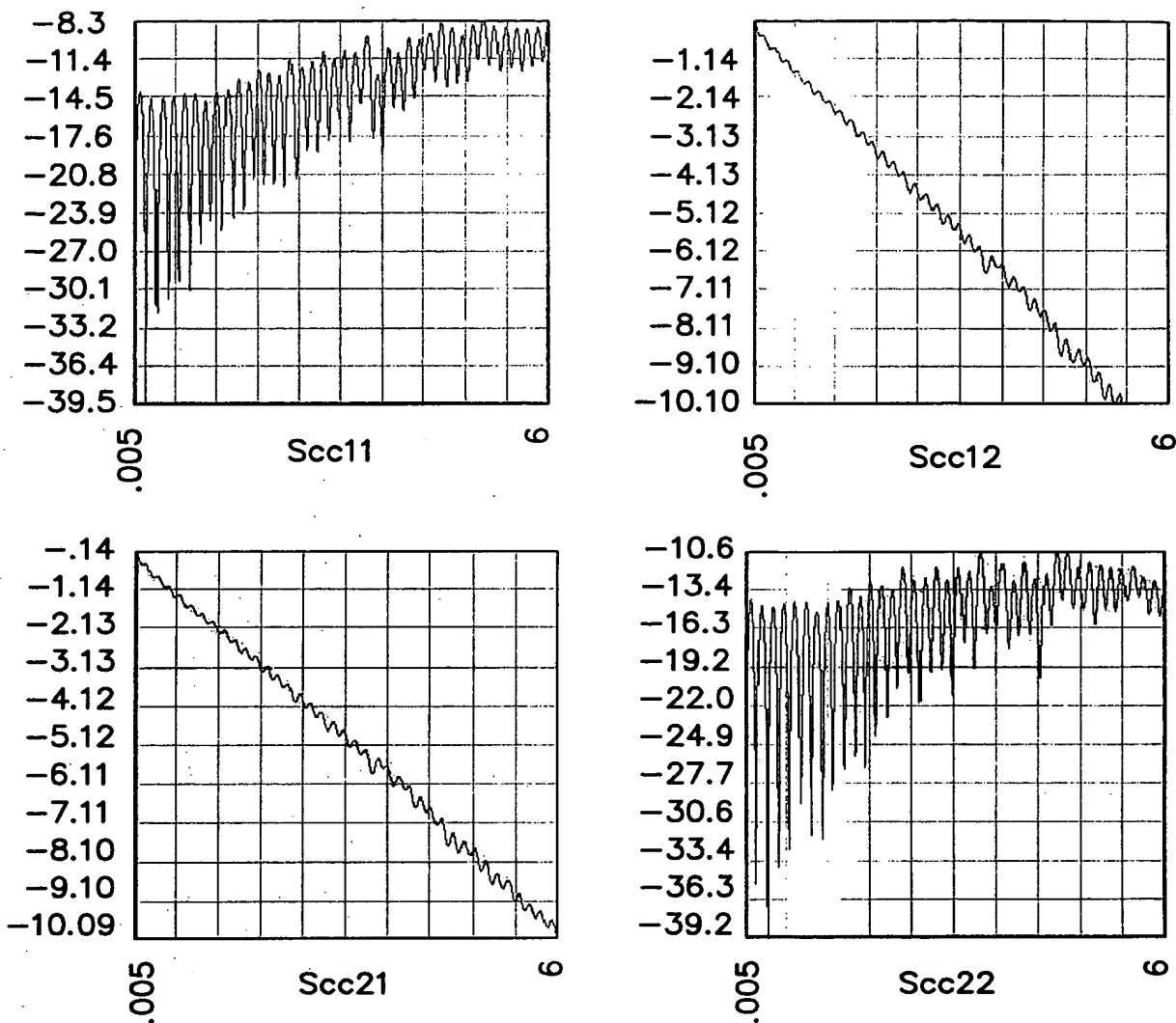


FIG. 33D

COPY OF PAPERS
 ORIGINALLY FILED

43/43

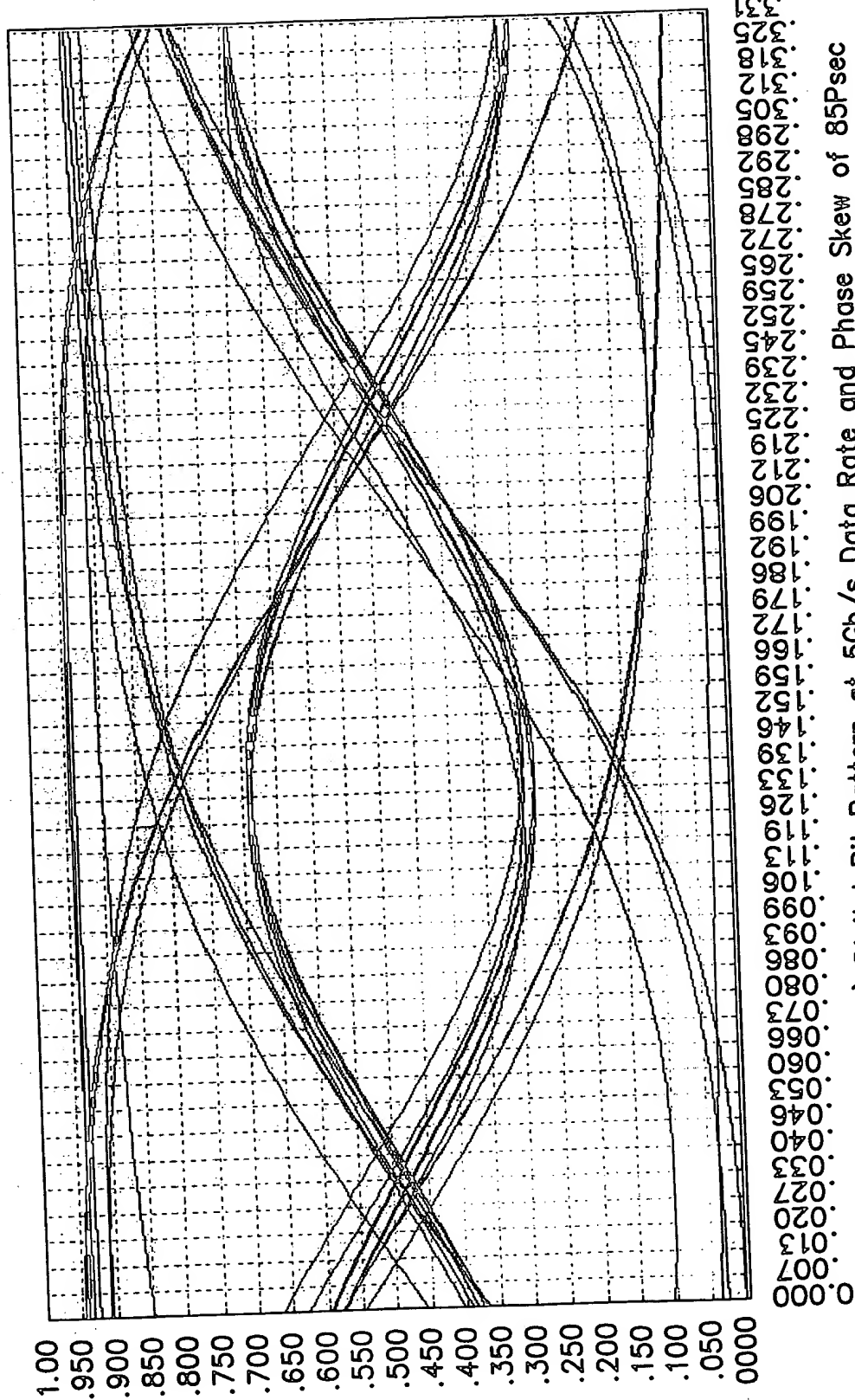


FIG. 34